MI-2000U/EG/EK/EA
MI-2100EG

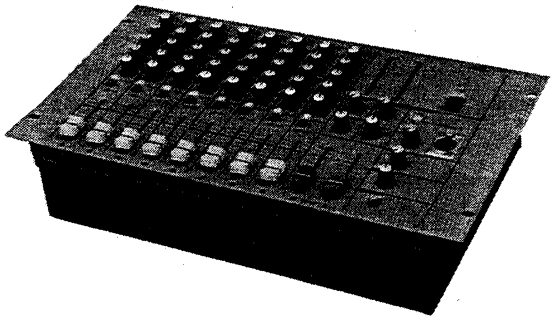
JVC

SERVICE MANUAL

PROFESSIONAL AUDIO MIXER

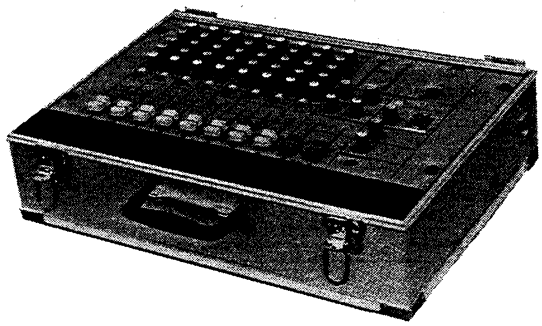
MODEL

MI-2000U/EG/EK/EA



MODEL

MI-2100EG



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No. 6019
Apr. 1985

Specifications

0 dBs = 0.775 V

Item	MI-2000U	MI-2000EA/EK	MI-2000EG	MI-2100EG
Input MIC IN LINE IN (1 ~ 4 ch) LINE IN (5 ~ 6 ch) PHONO IN EXT. MONITOR IN TALK BACK MIC	 −70/−60/−50/−40/−20 dBs, 8 ch (matched to 600 Ω, balanced) −10 dBs, 10 kΩ, balanced −10 dBs, 10 kΩ, unbalanced −54 dBs, 50 kΩ, unbalanced −10 dBs, 10 kΩ, unbalanced, 2 ch −60 dBs (matched to 600 Ω, balanced)			
Output PROGRAM OUT PROGRAM OUT REC OUT AUX OUT STUDIO SEND ROOM MONITOR HEADPHONE	 0 dB, load impedance 600 Ω, balanced, 2 ch (L/R) 0 dBs, load impedance 10 kΩ, unbalanced, 2 ch (L/R) 0 dBs, load impedance 10 kΩ, unbalanced, 2 ch (L/R) 0 dBs, load impedance 10 kΩ, unbalanced, 1 ch 0 dBs, load impedance 10 kΩ, unbalanced, 2 ch (L/R) 0 dBs, load impedance 10 kΩ, unbalanced, 2 ch (L/R) 100 mW max., load impedance 8 Ω (L/R)			
Frequency response MIC LINE	 20 Hz to 20 kHz, +0 dB/−2 dB 20 Hz to 20 kHz, +0 dB/−1 dB			
THD MIC LINE	 Less than 0.1% (1 kHz)/0.3% (30 Hz to 20 kHz) (+20 dBs output) Less than 0.1% (20 Hz to 20 kHz) (+20 dBs output)			
Noise level to input	Less than −128 dB (Input 150 ohms, terminate filter IHF-A)			
Residual noise level	Less than −90 dB (Master Faders - OFF)/−78 dB (CH Faders - OFF)			
Crosstalk	Less than −70 dB (1 kHz, between channels, between Program and AUX OUT)			
Equalizer characteristics HIGH MID LOW	 10 kHz ± 12 dB (Shelving) 2.8 kHz ± 12 dB (Peaking) 100 Hz ± 12 dB (Shelving)			
Max. input level	+15 dBs (Sensitivity switch at −20 dB)			
Max. output level	+20 dBs			
Peak factor	Head room 35 dB			
Fader	Stroke 60 mm (2.25 inches)			
Built-in oscillator	1 kHz			
Phantom power supplies	DC 48 V			DC 48 V (in AC operation only)
Power supply	120 V AC	240 V AC	220 V AC	220 V AC, 12 V DC
Power consumption	AC 17 W DC 1 A (with optional DC converter unit)	AC 17 W		AC 17 W, DC 1 A
Dimensions (mm)	482(W) x 125(H) x 277(D) mm (19" x 4-15/16" x 11")			505(W) x 175(H) x 365 (D) mm
Weight	7.8 kg (18 lbs)			11.8 kg

IMPORTANT (In the United Kingdom)
For British-Standard Model
Mains Supply (AC 240 V~, 50 Hz only)

IMPORTANT

WARNING: THIS APPARATUS MUST BE EARTHED.

IMPORTANT

The wires in this mains lead are coloured in accordance with the following code:

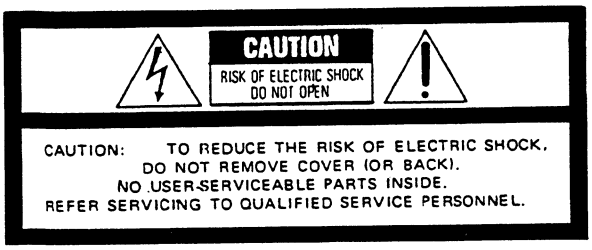
GREEN-AND-YELLOW: EARTH
BLUE: NEUTRAL
BROWN: LIVE

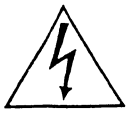
As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows.

The wire which is coloured green-and-yellow must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol or coloured green or green-and-yellow.

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured blue or black.

The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured brown or red.


CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING:
TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.

Due to design modifications, data given in this instruction book are subject to possible change without prior notice.

Important Safeguards

1. Read all of these instructions.
2. Save these instructions for later use.
3. Unplug this appliance system from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
4. Do not use attachments not recommended by the appliance manufacturer as they may cause hazards.
5. Do not use this appliance near water – for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, etc.
6. Do not place this appliance on an unstable cart, stand, or table. The appliance may fall, causing serious injury to a child or adult, and serious damage to the appliance. Use only with a cart or stand recommended by the manufacturer, or sold with the appliance. Wall or shelf mounting should follow the manufacturer's instructions, and should use a mounting kit approved by the manufacturer.
7. Slots and openings in the cabinet and the back or bottom are provided for ventilation, and to insure reliable operation of the appliance and to protect it from overheating, these openings must not be blocked or covered. The openings should never be placed near or over a radiator or heat register. This appliance should not be placed in a built-in installation such as a bookcase unless proper ventilation is provided.
8. This appliance should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied to your home, consult your dealer or local power company. For appliance designed to operate from battery power, refer to the operating instructions.
9. This appliance system is equipped with a 3-wire grounding type plug (a plug having a third (grounding) pin). This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding plug.
10. Do not allow anything to rest on the power cord. Do not locate this appliance where the cord will be abused by persons walking on it.
11. Follow all warnings and instructions marked on the appliance.
12. Do not overload wall outlets and extension cords as this can result in fire or electric shock.
13. Never push objects of any kind into this appliance through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the appliance.
14. Do not attempt to service this appliance yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
15. Unplug this appliance from the wall outlet and refer servicing to qualified service personnel under the following conditions:
    a. When the power cord or plug is damaged or frayed.
    b. If liquid has been spilled into the appliance.
    c. If the appliance has been exposed to rain or water.
    d. If the appliance does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating

instructions as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the appliance to normal operation.

e. If the appliance has been dropped or the cabinet has been damaged.

f. When the appliance exhibits a distinct change in performance – this indicates a need for service.

16. When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

17. Upon completion of any service or repairs to this appliance, ask the service technician to perform routine safety checks to determine that the appliance is in safe operating condition.

Precautions Before Setting

- Use only Cannon connectors for the MIC IN inputs!
  The MIC IN input connectors use Cannon connectors and do not accept microphones with phone plugs. With such microphones, use a cord equipped with a Cannon connector.
- Beware of oscillations when using a tape deck for both recording and playback!
  When the REC OUT of the audio mixer is connected to the REC IN of a tape deck and the LINE OUT of the same deck is connected to LINE IN of the audio mixer, the signal recorded sometimes includes oscillations due to the signal loop. In such case, set the mixer's input faders to minimum or disconnect LINE IN except in playback.
- Before switching power on, set the fader and other volume controls to minimum!
  Set all the volume controls of the equipment making up the system to minimum, to prevent damage to the loudspeakers and power amps. The pan pots and equalizers are to be set to their center positions so that they can be used later.
  The same caution is also required when setting the mixer for portable use. All PHANTOM power switches should be set to OFF before switching the power on/off.
- Switch on the power of the equipment following the flow of the signals!
  When turning on the power of a sound system, the power amp should be switched on last, to prevent speaker damage due to switching noise. Switch off in the reverse order.
- Before setting the PHANTOM power switch to ON or OFF, be sure to set the input faders and AUX volume controls to minimum to prevent speaker/amp damage. The click noise heard when switching PHANTOM switches is not a malfunction.

MI-2000 EG/EK/EA, MI-2100EG

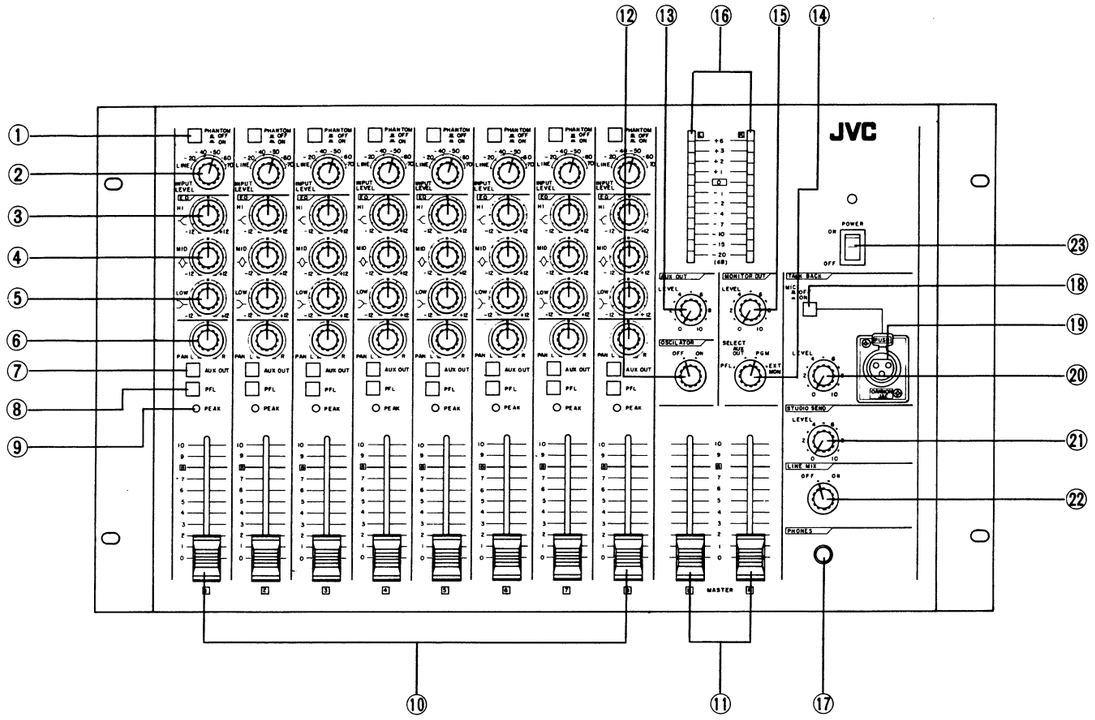
- With the Cannon connectors, pin 2 is the HOT terminal!
  When wiring female connectors (XLR-3-31 type), pin connections are: (1) EARTH, (2) HOT, (3) COLD. When unbalanced outputs are required for the MASTER and AUX OUT outputs which use male connectors (XLR-3-32 type), pin connections to be wired are: (1) EARTH, (2) HOT, (3) EARTH.

MI-2000U

- With the Cannon connectors, pin 3 is the HOT terminal!
  When wiring female connectors (XLR-3-31 type), pin connections are: (1) GROUND, (2) COLD, (3) HOT. When unbalanced outputs are required for the MASTER outputs which use male connectors (XLR-3-32 type), pin connections to be wired are: (1) GROUND, (2) EARTH, (3) HOT

Names of Parts

- **MI-2000 FRONT PANEL**



INPUT CHANNEL SECTION

① PHANTOM power supply switch
+48 V power for condenser microphones. Before operating them, be sure to set faders ⑩ to minimum.

② INPUT LEVEL switch
Switches to MIC IN (levels in 5 steps from −70 to −20 dB), LINE IN (ch 1 to 6) or PHONO IN (ch 7/8).

③ HIGH, ④ MID, ⑤ LOW equalizers
Flat at center and, at the leftmost/rightmost positions, ±12 dB cut/boost at 10 kHz (HIGH), 2.8 kHz (MID) and 100 Hz (LOW).

⑥ PAN pots
Distributes the output of each channel between L and R.

⑦ AUX OUT switches
Signals, after being processed by channel equalizers ③ ④ ⑤ and fader ⑩, can be output at AUX OUT to echo unit, etc.

⑧ PFL (Pre-Fader Listening) switches
When this button is "ON" with MONITOR OUT SELECT switch ⑭ set to "PFL", the signal can be monitored before being controlled by channel fader ⑩.

⑨ PEAK indicators
Lights when the head amp level is near (6 dB under) the clip point. Set INPUT LEVEL switch ② to a sensitivity one step below the level at which the indicator lights.

⑩ Channel faders
Adjust the output levels to the Master section. Set the INPUT LEVEL switches or source output level so that the fader positions are around "8". With high-level hum noise, set the faders lower and the output level of sound source higher.

MASTER SECTION

⑪ MASTER faders L/R
Adjust the levels of signals to be output from PROGRAM OUTPUT.

⑫ OSCILLATOR switch
Supplies 1 kHz test signals to the program outputs.

⑬ AUX OUT level control
The volume of signals supplied from AUX OUT are adjusted.

MONITOR SECTION

⑭ MONITOR OUT SELECT switch
Select the signal to be monitored via ROOM MONITOR or PHONES jack.

⑮ MONITOR OUT LEVEL control
The volume of the monitored signal selected by ⑭ is adjusted.

⑯ LED bar graph meters
Indicates the level of signal selected by ⑭, regardless of volume set by ⑮.

⑰ PHONES jack
Connect stereo headphones.

TALK BACK SECTION

⑱ TALK BACK MIC ON/OFF switch
By setting this to "ON", annoucement in the studio can be made via STUDIO SEND. When this is "OFF", STUDIO SEND output the monitor signal selected by ⑭.

⑲ TALK BACK microphone connector
Female connector equivalent to Cannon XLR-3-31.

⑳ TALK BACK LEVEL control
Adjusts the talk-back microphone input volume.

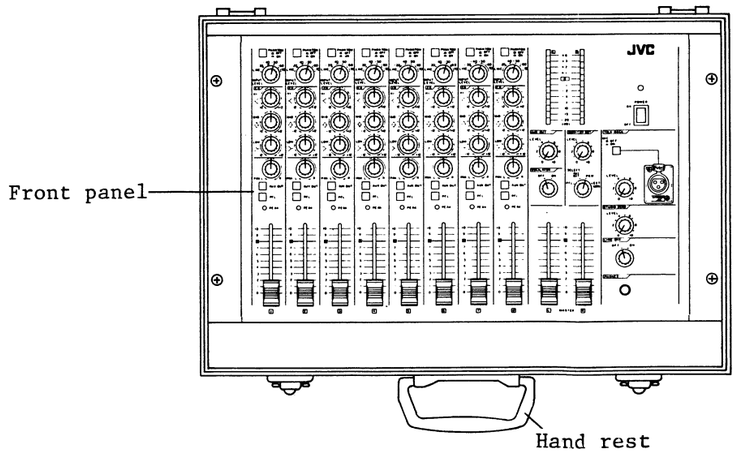
㉑ STUDIO SEND LEVEL control
Adjusts the output volume of STUDIO SEND.

㉒ LINE MIX ON/OFF switch
The signal from talk-back microphone can be supplied to PROGRAM OUT A/B or REC OUT. Before setting this to ON, be sure to decrease the monitoring volume to prevent howling.

POWER SUPPLY SECTION

㉓ POWER ON/OFF switch
Press the "ON" (or "1") side to turn the power on.

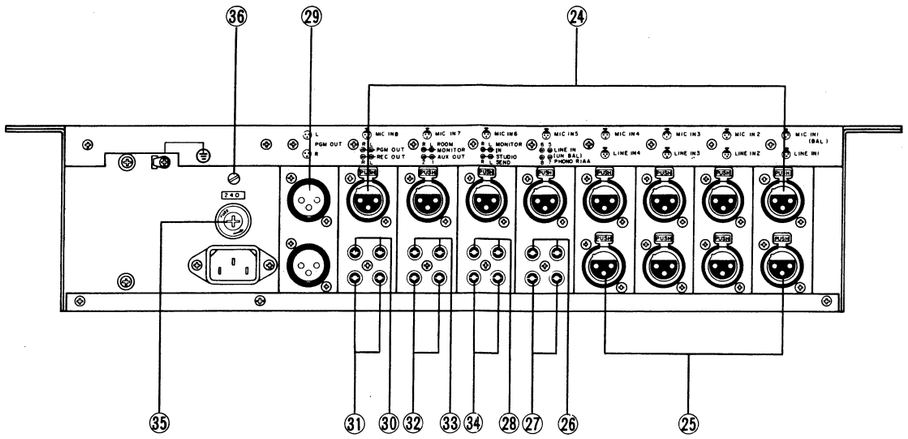
- **MI-2100 FRONT PANEL**



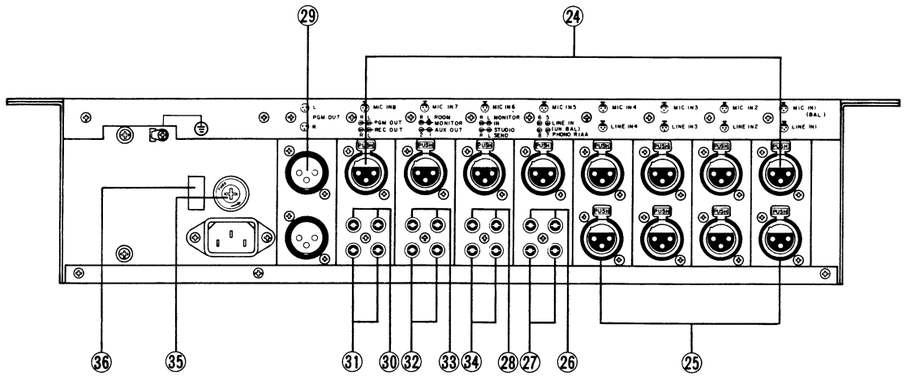
- Operation of MI-2100

The front panel operations are the same for both MI-2000 and MI-2100. However, with the MI-2100, PHANTOM power switches ① are effective only with AC power supply. The switches are not effective with a DC power supply.
An accessory case is provided under the hand rest for the storage of the power cord, microphones, etc.

- **MI-2000EG/EK/EA, MI-2100EG REAR PANEL**



- **MI-2000U REAR PANEL**



REAR PANEL INPUTS

(24) MIC IN connectors (ch 1 to 8)
−70/−60/−50/−40/−20 dB switchable, 600 Ω, balanced.
Connect microphones with output impedance from 50 up to 600 Ω or other equipment with 600 Ω balanced output. The Cannon XLR-3-31 equiv. female connectors accept Cannon XLR-3-12C male connectors.

(25) LINE IN connectors (ch 1 to 4)
−10 dB, 10 kΩ, balanced.
Connect equipment with balanced outputs, such as a tape deck and another mixer. The Cannon XLR-3-31 female connectors are the same as the MIC IN connectors but −10 dB/10 kΩ input level/impedance accept equipment with high impedance. Set INPUT LEVEL switches (2) to "LINE" when using these connectors.

(26) LINE IN connectors (ch 5 and 6)
−10 dB, 10 kΩ, unbalanced.
RCA-type pin jacks for audio equipment or musical instruments. Set INPUT LEVEL switches (2) to "LINE".

(27) PHONO IN connectors (ch 7 and 8)
−54 dB, 50 kΩ, unbalanced.
RCA-type pin jacks for turntable with MM cartridge (IM type also possible). Set INPUT LEVEL switches (2) to "RIAA". When not in use, insert short-circuit pins.

(28) EXT MONITOR IN connectors (L/R)
−10 dB, 10 kΩ, unbalanced.
Use for direct monitoring of signals from a video deck, etc. without processing by the mixer. When using them, set MONITOR SELECT switch (14) to "EXT MONI".

REAR PANEL OUTPUTS

(29) PROGRAM OUT A connectors (L/R)
0 dB, 600 Ω, balanced.
Main output of mixed signal with volume controlled by L/R MASTER faders. The Cannon XLR-3-32 male connectors accept Cannon XLR-3-11C female connectors. When equipment with about 10 kΩ impedance is connected, the output level is increased by about 6 dB and the non-clip output also increases.

(30) PROGRAM OUT B connectors (L/R)
0 dB, 10 kΩ, unbalanced.
RCA-type pin jacks with unbalanced outputs of the same signal as (29). Use with equipment having a load impedance of 10 kΩ or more.

(31) REC OUT connectors (L/R)
0 dB, 10 kΩ, unbalanced.
Output the same signal as the PROGRAM outputs and are not controlled by the MASTER faders. Use for simultaneous recording of the PROGRAM outputs or for using this unit as a sub mixer.

(32) AUX OUT 1/2 connectors (L/R)
0 dB, 10 kΩ, unbalanced.
Output signals selected by AUX OUT switches (7), mixed and volume controlled by AUX OUT LEVEL control (13). These are post-fader signals (signals having passed through channel faders) so they can be used for effects using an echo unit, etc. Use with equipment having a load impedance of 10 kΩ or more. Terminals 1 and 2 output the same signals.

(33) ROOM MONITOR connectors (L/R)
0 dB, 10 kΩ, unbalanced.
Output signals selected by MONITOR OUT SELECT switch (14) and volume controlled by MONITOR OUT LEVEL control (15). These are the same signals as the PHONES output (17).

(34) STUDIO SEND connectors (L/R)
0 dB, 10 kΩ, unbalanced.
Output signals to be reproduced in the studio; talkback mike signal when TALK BACK switch (18) is "ON" and monitor signal when it is "OFF". Use with equipment having a load impedance of 10 kΩ or more.

- **MI-2000EG/EK/EA, MI-2100EG**

(35) FUSE
Use only the specified 0.2 A fuse.

(36) Voltage selector
Select the line voltage of your area.
- MI-2000EG, MI-2100EG
  Position 220
- MI-2000EK/EA
  Position 240

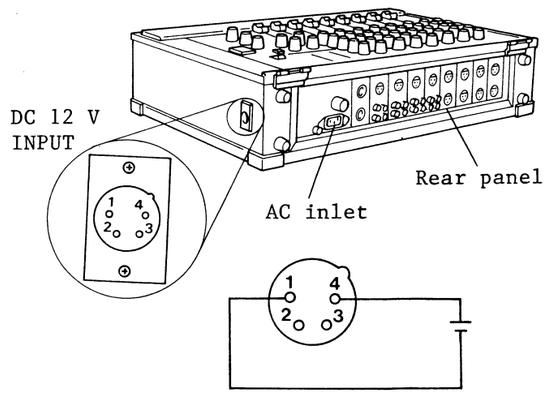
- **MI-2000U**

(35) FUSE
Use only the specified 0.5 A fuse.

(36) DC INPUT connector
Battery operation is possible when the optional DC converter unit is connected here.

- **MI-2100 REAR PANEL**

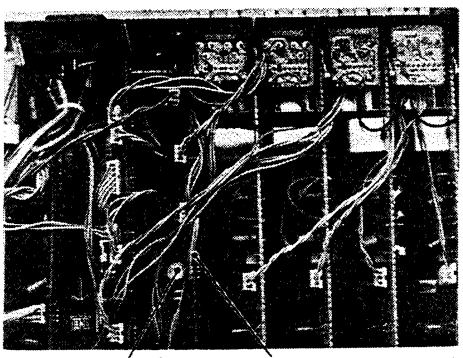
The MI-2100 rear panel is same as the MI-2000. Use the provided power cord with AC mains power supply.
For 12 V DC power supply such as car battery, connect to the DC INPUT terminal. The Cannon XLR-4-32 male connector accepts a Cannon XLR-4-11C female connector with the wiring shown.



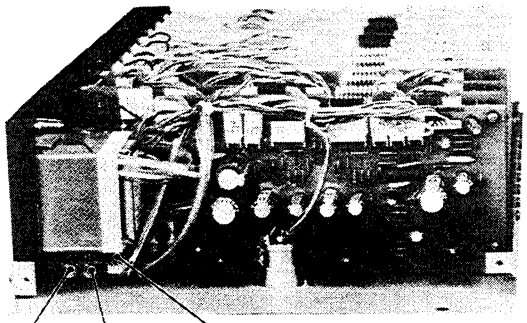
Adjustment Procedures

Adjustments Common to MI-2000 and MI-2100

1. Oscillator (1 kHz) output level adjustment



1) Connect a VTVM to the L/R program outputs (unbalanced, pin jacks).
2) Set the front panel Oscillator switch to ON and the L/R Master faders to maximum.



3) Adjust oscillator output adjustment R353 (VR) on the SSK0233-01 Master L board so that the L/R program output levels are 0 dBs.

2. LED level meter adjustment

1) After the oscillator output adjustment, output 0 dBs from the program outputs (unbalanced, pin jacks).
2) Adjust VR R613 (R-ch) and R614 (L-ch) on the SSK0233-05 LED Indicator board so that the front panel LED level meter indications are 0 dB.

3. Power Supply board voltage check

In this adjustment, voltages at different points on the SSK0233-04 Power Supply board are checked.

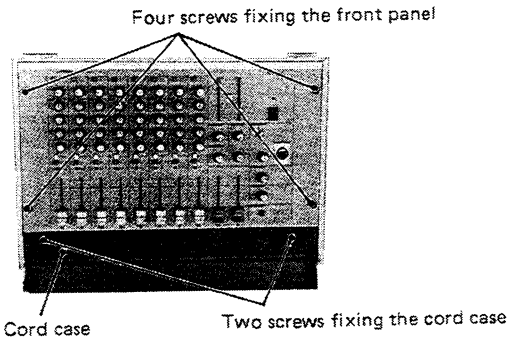
1) Pin (2) should be −16.5 V (−B), pin (6) +16.5 V, and pin (8) +48 V (PHANTOM) with respect to the voltage at pin (4) (GND) of connector CN01.
2) The voltages measured at pin (4) of connector Y14 and pin (4) (GND) of connector CN01 should be 11.5 V.

4. MI-2100 DC/DC converter voltage check

1) Input 12 V into the 12 V input terminal of the DC/DC converter, and set the Power switch to ON.
2) Check that the voltages of the DC/DC converter's +18 V and −18 V terminals are +18 V and −18 V respectively with respect to the GND terminal.
3) The voltage at pin (6) (Q901 emitter) should be +16 V and that at pin (4) be −15.5 V with respect to pin (5) (GND) of connector CN17 on the SSK-0233-09 DC Converter board.

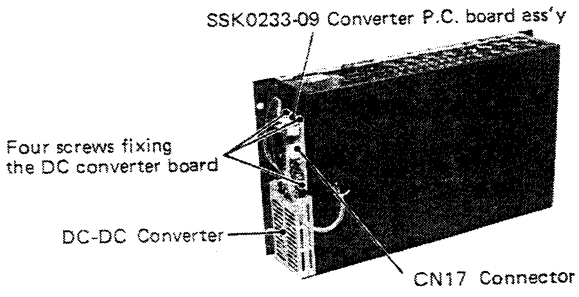
Disassembly

1. Removing the main section



1) Remove two screws fixing the cord case and pull up the cord case.
2) Remove four screws (5 mm) fixing the front panel.
3) Pull the main section towards you, lift it up, remove Connector CN27 on the SSK0233-09 DC Converter board and remove the main section.

2. Removing the converter assembly

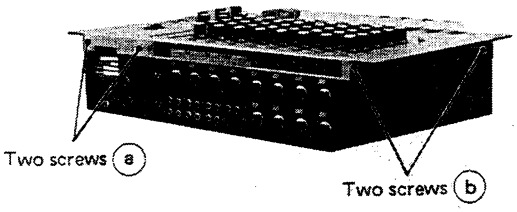


1) Remove connector CN17 of the SSK0233-09 DC Converter board.
2) The DC Converter board can be removed by removing four screws (3 mm) and the DC/DC Converter can be removed by removing four screws (3 mm) from inside the chassis cover.

- **MI-2000/MI-2100**

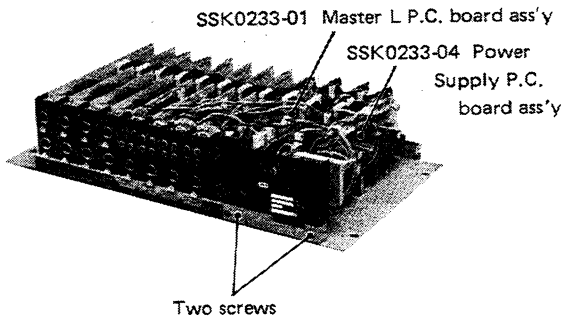
1. Removing the chassis cover

1) Remove two screws (a) on the rear.
2) Remove two screws (b) on each side panel (four screws in total). (With the MI-2100, also disconnect CN17 from the DC Converter board.)
3) Remove the chassis cover by moving it up.

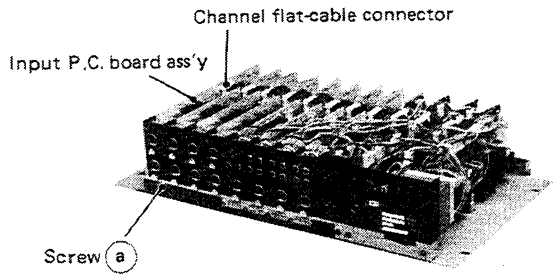


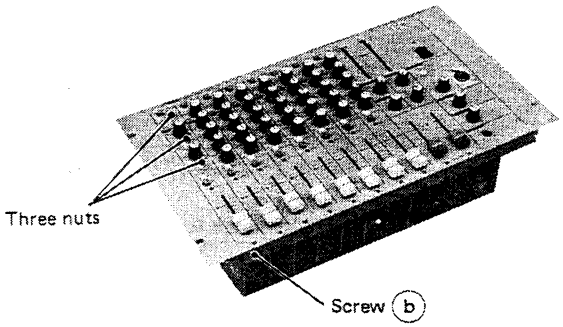
2. Removing the Power Supply assembly

1) Remove two screws on the rear.
2) Disconnect connectors CN16, CN24 and CN25 from the SSK0233-04 Power Supply board.
3) Disconnect connector CN19 from the SSK0233-01 Master L board and the Power switch's Faston terminal, and remove the Power Supply assembly.



3. Removing SSK0232 Input board

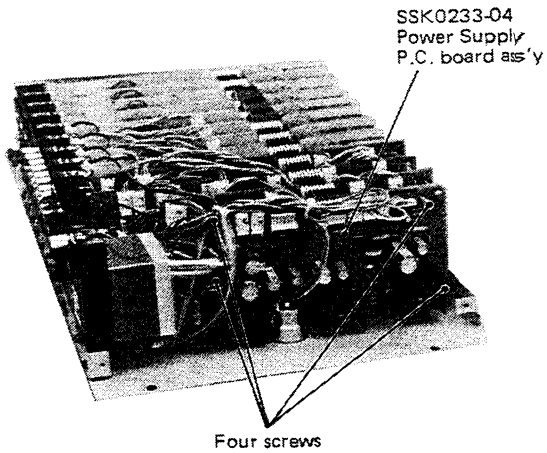




1) Disconnect the channel flat-cable connector.
2) Remove rear panel screw (a) and control knob bracket screw (b).
3) Remove five round screws and the fader knob.
4) Remove the nuts of the Input level switch, EQ MID control and pan pots, and remove the Input board.

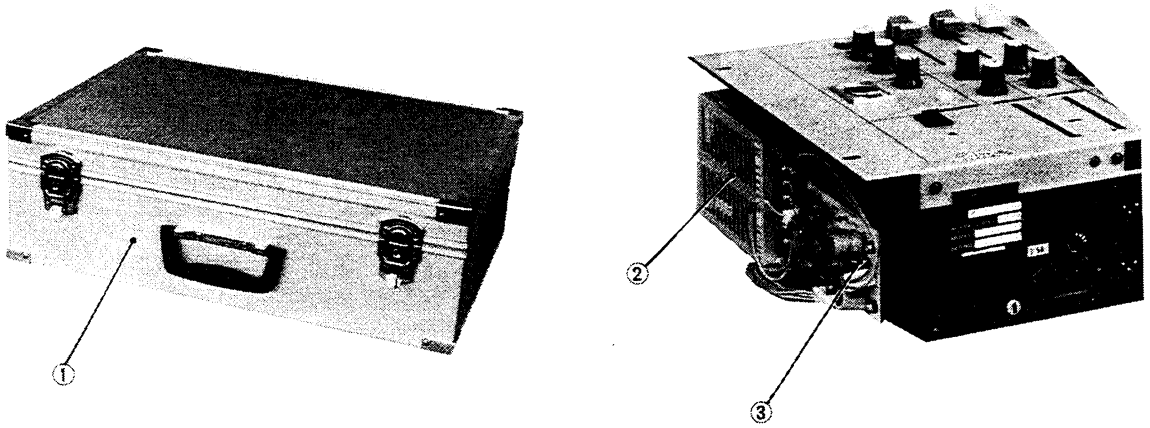
4. Removing SSK0233-04 Power Supply board

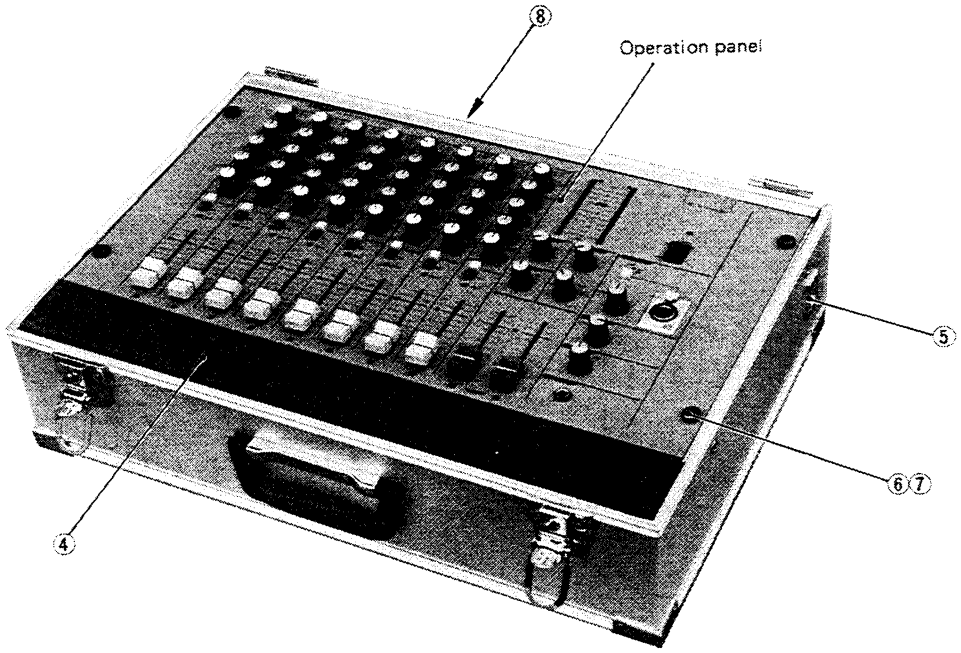
1) Disconnect the connectors connected to the circuit board.
2) Remove the Power Supply board by removing the four screws holding it.



Main Parts Location

1. MI-2100EG





PARTS LIST

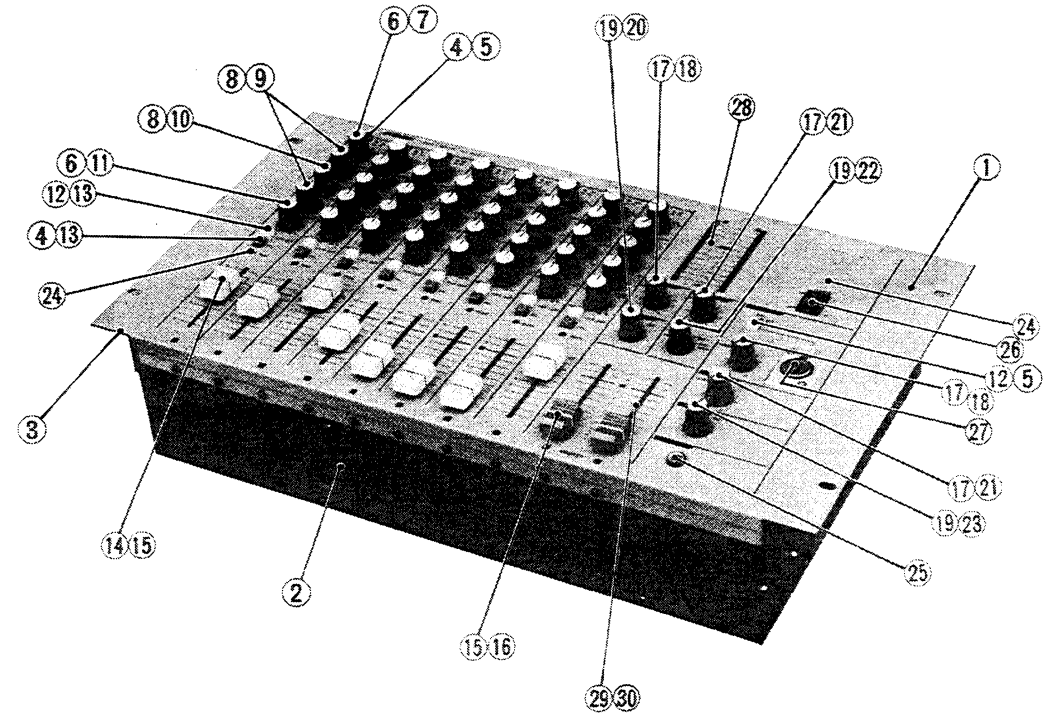
MI-2100EG

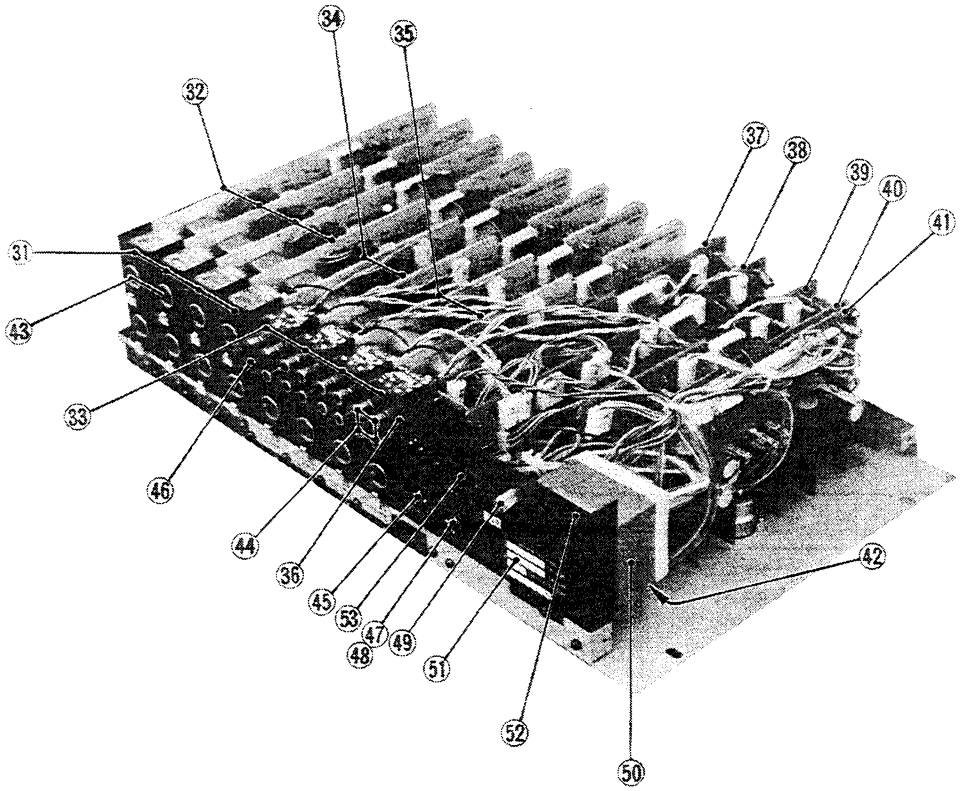
No.	Symbol No.	⚠	Parts No.	Parts Name	Description	Q'ty
1			SS11039	Carrying Case		1
2		⚠	SSV0560	Converter		1
3			SSK0233-09	DC Converter	12 V – 18 V	1
4			—	Cord Case		1
5			XLR-4-32	Connector	DC 12 V INPUT, 4 P	1
6			SHSP5014M	Screw	5 mm	4
7			SS44903	Washer		4
8			SS32499	Label		1

Schematic Diagram

2. MI-2000U/EG/EK/EA, MI-2100EG OPERATION PANEL

- Operation Panel





Parts List

No.	Symbol No.	⚠	Parts No.	Parts Name	Description	Q'ty
1			SS21207-002	F. Panel	MI-2000U/EG/EK/EA	1
			SS21235-002	"	MI-2100EG	1
2			SS21208-002	Chassis	MI-2000U/EG/EK/EA	1
3			SS32419-001	Mount Bracket	"	2
4			SS44826-006	Knob	(Red) Phontom, PFL	16
5	S101		QST3141-S02	Push Switch	Phontom, Talk Back SW	9
6			SS43429-009	Knob	(White) Input, PAN	16
7	S102		QSR5946-201	Rotary Switch	Input Level SW	8
8			SS43429-006	Knob	(Blue) EQ	24
9	R141, 145		QVF0A2W-115	V. Resistor	100 K, EQ High, Low VR	16
10	R149		QVF0A2W-114	"	10 K, EQ MID VR	8
11	R164(165)		QVD7A2M-114F	"	10 K, PAN VR	1
12			SS44826-001	Knob	(White) AUX OUT, MIC	9
13	S103-1, -2		QST3221-S01	Push Switch	2	8
14			SS32375-001	Faders Knob	(White) Input, Faders	8
15	R156		QVT6C2C-014	Slide VR	10 K	10
16			SS32375-003	Faders Knob	(Red) Master Faders	2
17			SS43429-005	Knob	(Green)	4
18	R371		QVF0A2A-014	V. Resistor	10 K, AUX, Talk Back VR	2
19			SS43429-004	Knob	(Yellow)	3
20	S301		QSR1142-S01	Rotary Switch	Oscillator SW	1
21	R474		QVD4A2A-054	V. Resistor	50 K, Monitor Studio Send VR	2
22	S401		QSR6224-202	Rotary Switch	50 K, Select SW	1
23	S502		QSR1122-S01	"	Line Mix SW	1
24	D601		SLR-54UR5	LED	Power Supply Indicator	1
25	J501		QMS6L20-011	Jack Ass'y	Headphone	1
26	S1	⚠	QSE2100-001	Power Switch	Power Supply SW	1
27			XLB-3-31	Connector	Talk Back Mic	1
28			SS44242-002	Window		2
29			SS41427	Felt		10
30			SS44814	F. Bracket		10
31			SS44811	Input Bracket C		4
32			SSK0232-01A	Input A P.C. Board Ass'y	MI-2000EG/EK/EA, MI-2100EG	4
			SSK0232-01B	"	MI-2000U	4
33			SS44812	Input Bracket P		4
34			SSK0232-02AC	Input B P.C. Board Ass'y	MI-2000EG/EK/EA, MI-2100EG	2
			SSK0232-02BC	"	MI-2000U	2
35			SSK0232-02AD	Input C P.C. Board Ass'y	MI-2000EG/EK/EA, MI-2100EG	2
			SSK0232-02BD	"	MI-2000U	2
36			SS44816	Master Bracket		1
37			SSK0233-01A	Master L P.C. Board Ass'y	MI-2000EG/EK/EA, MI-2100EG	1
			SSK0233-01B	"	MI-2000U	1
38			SSK0233-02A	Master R P.C. Board Ass'y	MI-2000EG/EK/EA, MI-2100EG	1
			SSK0233-02B	"	MI-2000U	1
39			SSK0233-03	Talk Back P.C. Board Ass'y		1
40			SS32417	Bracket		1
41			SSK0233-04A	Power Supply P.C. Board Ass'y	MI-2000U/EG/EK/EA	1
			SSK0233-04B	"	MI-2100EG	1
42			SSK0233-05	LED Indicator P.C.Board Ass'y		1
43	J102		XLB-3-31PCV	C. Connector	Mic Input	12
44			T5857-ABAA	Pin Jack		4
45	J301, 401		XLB-3-32PCS	C. Connector	Program Output	2
46			E03449-001	S. Pin Plug	Short Pin	2
47		⚠	QMG0301-002	Fuse Holder	MI-2000EG/EK/EA, MI-2100EG	1
		⚠	QMG0102-001	"	MI-2000U	1
48		⚠	QMF51A2-R315BS	Fuse	MI-2000EG/EK/EA, MI-2100EG	1
		⚠	QMF61U1-R50	"	MI-2000U	1
49			E03619-001	GND Terminal		1
50		⚠	SSV0526	Transformer	MI-2000EG/EK/EA, MI-2100EG	1
		⚠	SSV0525	"	MI-2000U	1
51			SS43621	Name Plate		1
52			SS32443-00C	Power Bracket	MI-2000EG/EK/EA, MI-2100EG	1
			SS32443-00B	"	MI-2000U	1
53		⚠	QMC0335-002-BS	AC Socket	MI-2000EG/EK/EA, MI-2100EG	1
54		⚠	QSR0074-003-BS	Voltage Selector	" "	1

P.C.Board Assembly Parts List

- **SSK0232 INPUT P.C. BOARD ASSEMBLY COMMON PARTS**

Symbol No.	⚠	Parts No.	Parts Name	Description	Q'ty
		*SS81055	Wiring Board		1/2
IC101		NJM2041DD	IC	(JRC)	1
IC102, 103		NJM4558DD	"	(JRC) OP. AMP	2
Q101, 103		2SC1570NP(F)AA	Transistor	(SANYO)	2
Q102		2SA929(F)AA	"	(SANYO)	1
D101, 102		1S1555TP3	Diode	(TOSHIBA)	2
D103		SLR-54UR5	LED	(ROHM) Peak Indicator	1
		SS44280	LED Holder		1
R		QRD141J-	C. Resistor		
R141, 145		QVF0A2W-115	V. Resistor	Equalizer HIGH, LOW	2
R149		QVF0A2W-114	"	" MID	1
R164(165)		QVD7A2M-114F	"	PHAN VR	1
R101, 102		QRD149J-100S	UNF. C. Resistor		2
R156		QVT6C2C-014	Slide VR		1
C116		QETB0JM-108	E. Capacitor	6.3 V, 1000 μ	1
C103—104		QETC1EM-107Z	"	25 V, 100 μ	2
C119, 120, 123, 127, 128, 133, 137, 139, 142		QETC1EM-106Z	"	25 V, 10 μ	9
C132, 135		QETC1EM-476Z	"		2
C141		QETC1HM-105Z	"		1
C109		*QCS31HJ-103ZK	C. Capacitor		2
C115, 125, 118		QCS31HJ-101ZK	"		3
C131		QCS31HJ-220ZK	"		1
C107, 108		QFN31HJ-103ZD	M. Capacitor	50 V, 0.01 μ	2
C121, 126		QFN31HJ-154ZD	"	50 V, 0.15 μ	2
C124		QFN31HJ-682ZD	"	50 V, 0.0082 μ	1
C129		QFN31HJ-123ZD	"	50 V, 0.012 μ	1
C130		*QFN31HJ-821ZD	"	50 V, 0.0082 μ	1
J101		XLB-3-31PCV	C. Connector		1
CN01		SS30662-008	UL. L.P. Header	8 P	1
S101		QST3141-S02	Push Switch	PHANTOM Power Supply SW	1
S102		QSR5946-201	Rotary Switch	Input Level SW	1
S103(104)		*QST3221-S01	Push Switch	AUX OUT SW	1

- **SSK0232-01A INPUT A P.C. BOARD ASSEMBLY (MI-2000EG/EK/EA, MI-2100EG)**
- **SSK0232-01B " (MI-2000U)**

Symbol No.	⚠	Parts No.	Parts Name	Description	Q'ty
		*SS81055	Wiring Board		1/2
R175		QRD141J-682SY	C. Resistor		2
R173		QRD141J-104SY	"		1
R176, 177		QRD141J-472SY	"		2
C136		QETC1EM-106Z	E. Capacitor	25 V, 10 μ	1
C138		QCS31HJ-220ZK	C. Capacitor		1
J102		XLB-3-31PCV	C. Connector		1
T101		SS42339-002	Mic. Trans.		1

- **SSK0232-02AC INPUT B P.C. BOARD ASSEMBLY (MI-2000EG/EK/EA, MI-2100EG)**
- **SSK0232-02BC " (MI-2000U)**

Symbol No.	⚠	Parts No.	Parts Name	Description	Q'ty
		*SS81055	Wiring Board		1/2
R173		QRD141J-104SY	C. Resistor	20	1
R175		QRD141J-682SY	"		1
R176, 177		QRD141J-472SY	"		2
R101—102	⚠	QRD149J-100S	UNF. C. Resistor		2
C113, 114		QETA0JM-227	E. Capacitor	6.3 V, 220 μ	2
C136		QETC1EM-106Z	"		1
		QCF32HP-103	C. Capacitor		1
CN02		SS30662-003	L. Post Header	3 P	1
T101		SS42339-002	Mic. Trans.		1

- **SSK0232-02AD INPUT C P.C. BOARD ASSEMBLY (MI-2000EG/EK/EA, MI-2100EG)**
- **SSK0232-02BD " (MI-2000U)**

Symbol No.	⚠	Parts No.	Parts Name	Description	Q'ty
		*SS81055	Wiring Board		1/2
R173		QRD141J-391SY	C. Resistor	1/4 W, 390	1
R175		QRD141J-102SY	"	1/4 W, 1 K	1
R176		QRD141J-104SY	"	1/4 W, 100 K	1
R177		QRD141J-394SY	"	1/4 W, 390 K	1
R190		QRD141J-333SY	"	1/4 W, 33 K	1
R101–102	⚠	QRD149J-100S	UNF. C. Resistor	1/4 W, 10	2
R111, 112		QRG019J-682	OMF. Resistor	1 W, 6.8 K	2
		QCF32HP-103	C. Capacitor		1
C113, 114		QETA0JM-227	E. Capacitor	6.3 V, 220 μ	2
C136		QETC1AM-227Z	"	10 V, 220 μ	1
C138		QFN31HJ-822ZD	M. Capacitor	50 V, 0.0082 μ	1
C150		QFN31HJ-222ZD	"	50 V, 0.0022 μ	1
CN02		SS30662-003	L. Post Header	3 P	1
T101		*SSV0561	Mic. Trans.		1

- **SSK0233-01A MASTER L P.C. BOARD ASSEMBLY (MI-2000EG/EK/EA, MI-2100EG)**
- **SSK0233-01B " (MI-2000U)**

Symbol No.	⚠	Parts No.	Parts Name	Description	Q'ty
		*SS81056	Wiring Board		1/9
IC301–303, 305		NJM4560D	IC	(JRC)	4
IC304		NJM4558DD	"	(JRC) OP. AMP	1
Q308		2SA968(O,Y)	Transistor	(TOSHIBA)	1
Q305		2SC2238(O,Y)	"	(TOSHIBA)	1
Q306		2SC2240(BL)	"	(TOSHIBA)	1
D301, 302		HZ5C3	Diode	(HITACHI)	2
D303, 304, 306		1S1555TP3	"	(TOSHIBA)	3
D307		RB-152LFB	"		1
D305		HZ15-2L	Z. Diode	(HITACHI)	1
Q301–303		2SK170(GR)	FET	(TOSHIBA)	3
R335, 339		QRD121J-271	C. Resistor	1/2 W, 270	2
R384		QRD147J-153S	"	1/4 W, 15 K	1
R		QRD141J-	"		
R353		*QVZ3505-103B	V. Resistor		1
R371		QVF0A2A-014	"	AUX OUT VR	1
R322		QVT6C2C-014	Slide VR	MASTER Fader	1
R385		QRD141J-102	C. Resistor	1/4 W, 1 K	1
R386		QRD141J-153	"	1/4 W, 15 K	1
R303, 304, 310	⚠	QRD149J-100S	UNF. C. Resistor	1/4 W, 10	3
C303–310, 313, 316, 320, 321, 329, 330, 340, 344, 345, 348		QETC1EM-107Z	E. Capacitor	25 V, 100 μ	18
C317, 323–325, 332, 333, 349		QETC1EM-106Z	"	25 V, 100 μ	8
C352		QETC1EM-476Z	"	25 V, 47 μ	1
C354		QETC2AM-106Z	"	"	1
C351		*QETA2AM-337	"	100 V, 330 μ	1
C314, 353		QCS31HJ-101ZK	C. Capacitor		2
C315		QCS11HJ-470	"		1
C326, 327, 341		QCS31HJ-470ZK	"		4
C318, 322, 347		QCS31HJ-220ZK	"		3
C334, 336, 338		QCS31HJ-560ZK	"		3
C311, 312		QFN31HJ-103ZD	M. Capacitor		2
C335, 337, 339		QFN31HJ-102ZD	"	50 V, 0.001 μ	3
CN1		SS30662-008	UL. L. Post Header		1
CN3, 4, 19, 22		SS30662-003	L. Post Header		4
S301		*QSR1142-S01	Rotary Switch	Oscillator SW	1

- **SSK0233-02A MASTER R P.C. BOARD ASSEMBLY (MI-2000EG/EK/EA, MI-2100EG)**
- **SSK0233-02B " (MI-2000U)**

Symbol No.	⚠	Parts No.	Parts Name	Description	Q'ty
		*SS81056	Wiring Board		1/9
IC401—406		NJM4560D	IC	(JRC)	6
D401		DS135TE	Diode	(SANYO)	1
Q401—404		2SK170(GR)	FET	(TOSHIBA)	4
R		QRD141J-	C. Resistor	1/4 W	
R403, 404	⚠	QRD149J-100S	"	1/4 W	2
R435, 439		QRD121J-271	"	1/2 W, 270	2
R474		QVD4A2A-054	V. Resistor	Monitor VR	1
R422		QVT6C2C-014	Slide VR	Master VR	1
		QCF31HP-103ZK	C. Capacitor	0.01 μ	1
C414		QCS31HJ-101ZK	"		1
C415		QCS11HJ-470	"		1
C426, 427, 434, 436, 443, 444, 453, 454		QCS31HJ-470ZK	"		9
C418, 422		QCS31HJ-220ZK	"		2
		QETA1EM-227	E. Capacitor		2
C403, 404, 407, 408, 413, 416, 432		QETC1EM-107Z	"	25 V, 10 μ	7
C417, 420, 423—425, 435, 437, 441, 442, 447—450, 455—458, 460—462		QETC1EM-106Z	"	25 V, 10 μ	20
C421		QETC1EM-476Z	"		1
C438, 439		QFN31HJ-102ZD	M. Capacitor		2
C459		QFN31HJ-473ZD	"		1
CN1		SS30662-008	UL. L. P. Header		1
CN11		SS30662-006	"		1
CN5—8, 10, 21, 23		SS30662-003	L. Post Header		7
RY401		G5A237-DC12	Relay		1
S401		QSR6224-202	Rotary Switch	Select SW	1

- **SSK0233-03 TALK BACK P.C. BOARD ASSEMBLY**

Symbol No.	⚠	Parts No.	Parts Name	Description	Q'ty
		*SS81056	Wiring Board		1/9
IC501—503		NJM4560D	IC	(JRC)	3
IC504		BA5406	"		1
D501		DS135TE	Diode	(SANYO)	1
Q501, 502		2SK170(GR)	FET	(TOSHIBA)	2
R		QRD141J-	C. Resistor		
R501	⚠	QRD149J-100S	UNF. C. Resistor	1/4 W, 10	1
R575, 576	⚠	QRD149J-2R2S	"	1/4 W, 2.2	2
R579, 580		QRD143J-331S	C. Resistor		2
R521		QVF0A2A-014	V. Resistor	Talk Back SW	1
R551		QVD4A2A-054	"	Studio VR	1
R505		QRG129J-150	OMF. Resistor	1/2 W, 15	1
C508		QETA1EM-447	E. Capacitor	25 V, 470 μ	3
C553, 554		QETA1CM-477	"		2
C501, 502, 552		QETC1EM-107Z	"	25 V, 100 μ	3
C511, 512, 517—519, 509, 521, 523—526, 529—534		QETC1EM-106Z	"	25 V, 10 μ	19
C547, 548		QETC1CM-336Z	"	16 V, 33 μ	2
C549—551, 555, 556		QETC1EM-476Z	"	25 V, 47 μ	5
C543, 544		QEN61EM-475Z	N.P. Capacitor		2
C1—6, 505		QCF31HP-103ZK	C. Capacitor		7
C514, 515		QCS31HJ-220ZK	"		2
C516, 527, 528, 537, 538		QCS31HJ-470ZK	"		5
C507		QFN31HJ-104ZD	M. Capacitor		1
C539—541		QFN31HJ-103ZD	"	50 V, 0.01 μ	3

Symbol No.	⚠	Parts No.	Parts Name	Description	Q'ty
C545, 546		QFN31HJ-154ZD	M. Capacitor	50 V, 0.15 μ	2
CN11		SS30662-008	UL. L. P. Header		1
CN9, 12, 13		SS30662-003	L. Post Header		3
CN14		SS30662-005	"		1
J501		*QMS6L20-011	Jack Ass'y	Headphone Jack	1
S501		QST3141-S02	Push Switch	Talk Back Mic SW	1
S502		*QSR1122-S01	Rotary Switch	Line Mix SW	1
		G5A237-DC12	Relay		1

- **SSK0233-04 POWER SUPPLY P.C. BOARD ASSEMBLY COMMON PARTS**

Symbol No.	⚠	Parts No.	Parts Name	Description	Q'ty
		*SS81056	Wiring Board		1/9
IC801		TA78012AP	IC		1
Q801		2SC828A(R,S)	Transistor	(MATSUSHITA)	1
Q802		2SA564(R,S)	"	(MATSUSHITA)	1
Q803		2SC2238(O,Y)	"	(TOSHIBA)	1
Q804		2SA968(O,Y)	"	(TOSHIBA)	1
Q805		2SC828(R)TA	"	(MATSUSHITA)	1
D803, 804		1S1555TP3	Diode	(TOSHIBA)	2
D805, 807, 813		DS135TE	"	(SANYO)	3
D801, 802, 810		GZA18(Y)	Z. Diode	(SANYO)	3
D815, 816		RB-151	Diode Stack	(SANKEN)	2
R		QRD141J-	C. Resistor		
R814		QRG019J-102	OMF. Resistor	1 W, 1 K	1
C801, 802, 818, 819		QCF32HP-103	C. Capacitor		4
C807, 808		QCS31HJ-101ZK	"		2
C816		QCF31HP-103ZK	"		1
C817		QETC1HM-105Z	E. Capacitor		1
C826, 827		QETC1EM-107Z	"	25 V, 100 μ	2
C803, 804, 820		QETA1VM-228	"	35 V, 2200 μ	3
C809, 810, 823		QETA1EM-477	"	25 V, 470 μ	3
C811, 812		QETA1EM-108	"	25 V, 1000 μ	2
C815		QETA1VM-107	"		1
C821, 822		QFN31HJ-104ZD	M. Capacitor	50 V, 0.1 μ	2
CN1		SS30662-008	UL. L. P. Header		1
		DPSP3008M	Ass'y Screw		3
		*SMV2152	Heat Sink		3
		No. 18	M. Film		3
		No. 24B	N. Bushing		3

- **SSK0233-04A POWER SUPPLY A P.C. BOARD ASSEMBLY (MI-2000U/EG/EK/EA)**

Symbol No.	⚠	Parts No.	Parts Name	Description	Q'ty
		*SS81056	Wiring Board		1/9
CN16, 18, 24, 25		SS30662-003	L. Post Header	3 P	4

- **SSK0233-04B POWER SUPPLY B P.C. BOARD ASSEMBLY (MI-2100EG)**

Symbol No.	⚠	Parts No.	Parts Name	Description	Q'ty
		*SS81056	Wiring Board		1/9
D806, 808, 809, 814		DS135TE	Diode	(SANYO)	4
CN15, 16, 18, 24, 25		SS30662-003	L. Post Header	3 P	5
CN17		SS30662-007	UL. L. P. Header	7 P	1

- **SSK0233-05 LED INDICATOR P.C. BOARD ASSEMBLY**

Symbol No.	⚠	Parts No.	Parts Name	Description	Q'ty
		*SS81056	Wiring Board		1/9
IC601, 602		*IR2E16	IC		2
D602, 603		*GL-112F13	LED		2
D601		SLR-54UR5	"	Power Supply Indicator	1
R613, 614		QVZ3509-473	V. Resistor		2
R601, 602		QRD141J-333SY	C. Resistor	1/4 W, 33 K	2
R603, 604		QRD141J-562SY	"	1/4 W, 5.6 K	2
R605—608		QRD141J-103SY	"	1/4 W, 10 K	4
R609, 610		QRD141J-104SY	"	1/4 W, 100 K	2
R611, 612		QRD141J-184SY	"	1/4 W, 180 K	2
C601—604		QER61CM-476Z	E. Capacitor		4
C605—608		QER61HM-105Z	"		4

- **SSK0233-06 CANNON CONNECTOR P.C. BOARD ASSEMBLY**

Symbol No.	⚠	Parts No.	Parts Name	Description	Q'ty
		*SS81056	Wiring Board		1/9
CJ301, 401		*XLB-3-32PCS	Cannon Connector		2

- **SSK0233-07 PIN JACK P.C. BOARD ASSEMBLY**

Symbol No.	⚠	Parts No.	Parts Name	Description	Q'ty
[SSK0233-07A] Pin Jack 5 P.C. Board Assembly					
		*SS81056	Wiring Board		1/9
		*T5857-ABAA	Pin Jack		1
[SSK0233-07B] Pin Jack 6 P.C. Board Assembly					
		*SS81056	Wiring Board		1/9
		*T5857-ABAA	Pin Jack		1
[SSK0233-07C] Pin Jack 7 P.C. Board Assembly					
		*SS81056	Wiring Board		1/9
		*T5857-ABAA	Pin Jack		1
[SSK0233-07D] Pin Jack 8 P.C. Board Assembly					
		*SS81056	Wiring Board		1/9
		*T5857-ABAA	Pin Jack		1

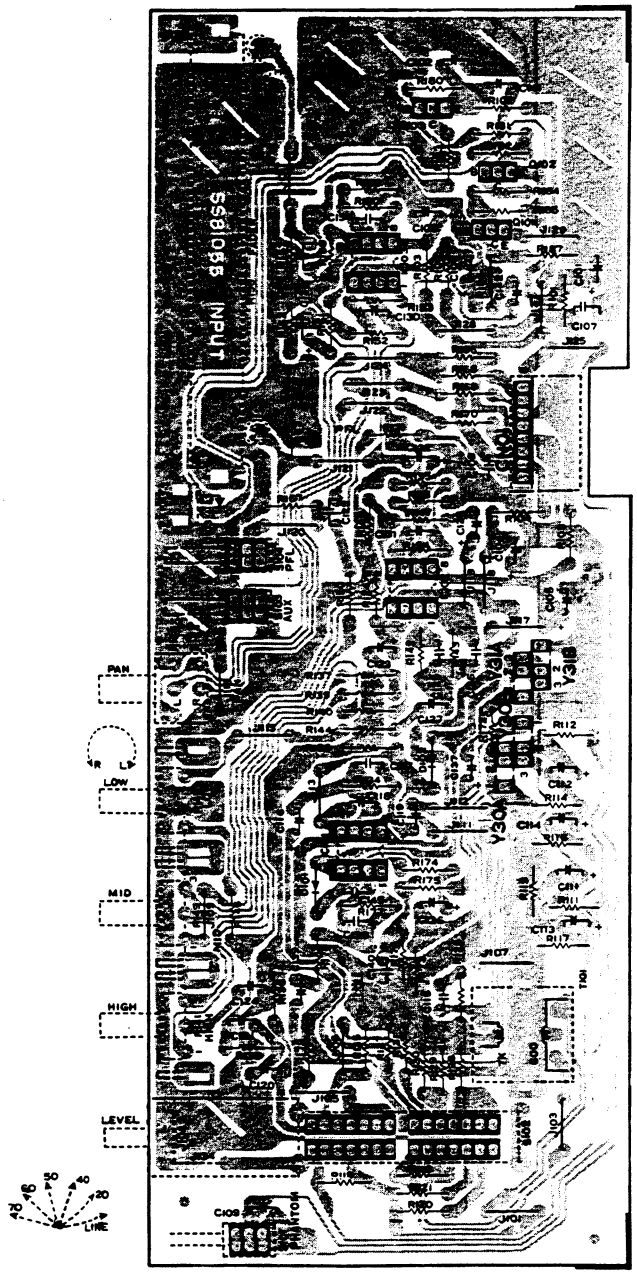
- **SSK0233-09 DC CONVERTER P.C. BOARD ASSEMBLY (MI-2100EG)**

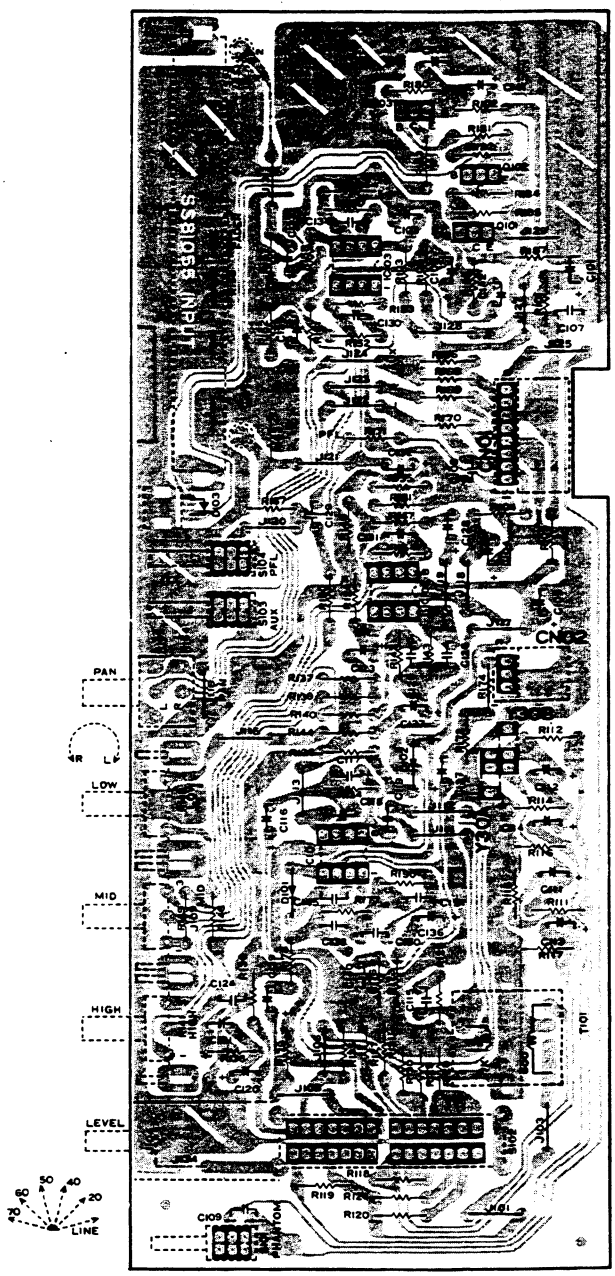
Symbol No.	⚠	Parts No.	Parts Name	Description	Q'ty
		*SS81056	Wiring Board		1/9
IC901		NJM4558DD	IC	(JRC)	1
Q901		2SC2238(O,Y)	Transistor	(TOSHIBA)	1
Q901		2SA968(O,Y)	"	(TOSHIBA)	1
D901, 903		DS135TE	Diode	(SANYO)	2
R901, 902		QRD141J-223SY	C. Resistor		2
R903		QRD141J-123SY	"		1
R904, 906, 907		QRD141J-103SY	"		3
R905, 908		QRD141J-330SY	"		2
C901		QETA1EM-477	E. Capacitor		1
C902		QETA1EM-107	"		1
C903, 905		QETA1EM-227	"		2
C904, 906		QFM41HJ-154	M. Capacitor		2
C907		QETC1EM-107Z	"		1
C908, 909		QCS31HJ-220ZK	C. Capacitor		2
RY901, 902		G5A237-DC12	Relay		2
CN27—29		SS30644-003	Post Header	3 P	3
CN17		SS30644-007	"	7 P	1
L901—903		SSV0569	Coil		3

P.C.Board Pattern Diagram

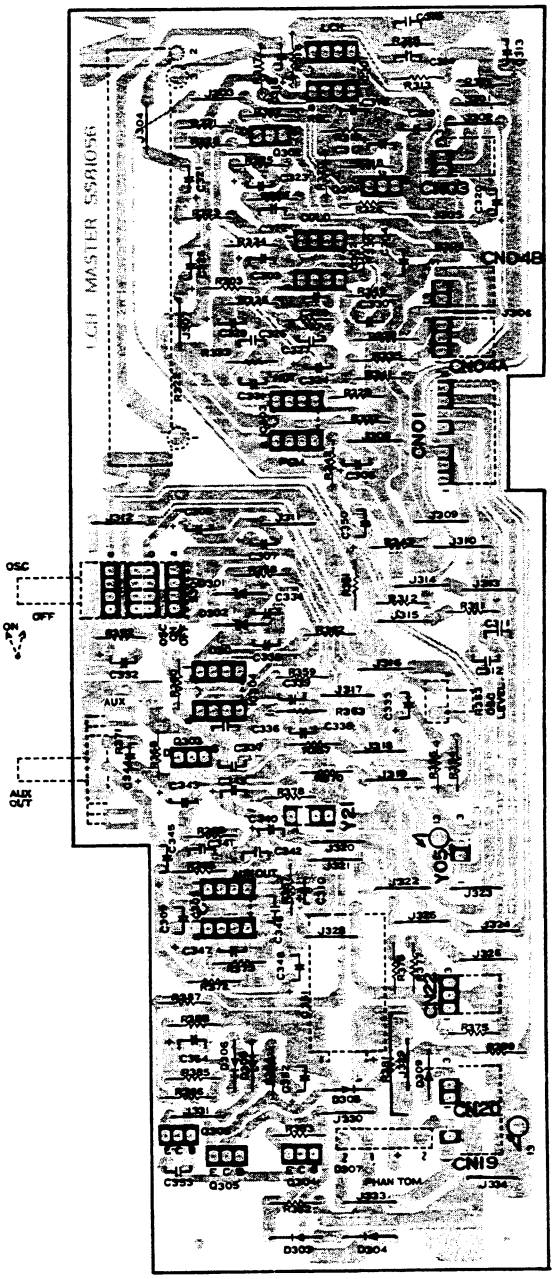
SSK0232-01A INPUT A P.C. BOARD ASS'Y
" -01B "

SSK0233-02AC INPUT B P.C. BOARD ASS'Y
" -02BC "
" -02AD INPUT C P.C. BOARD ASS'Y
" -02BD "

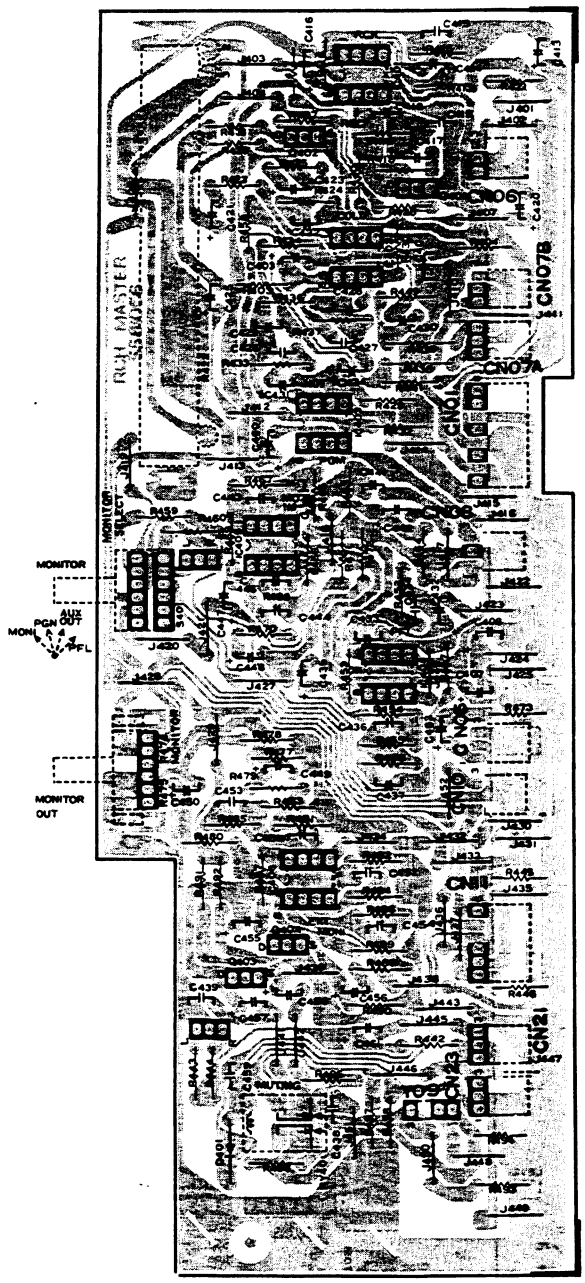




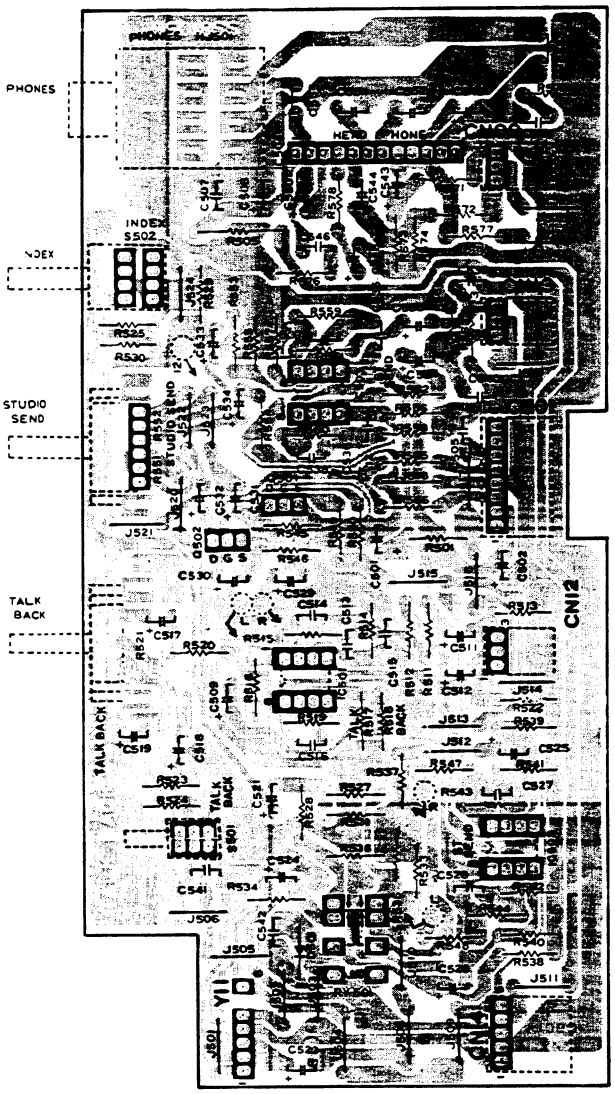
SSK0233-01A MASTER L P.C. BOARD ASS'Y
" -01B "



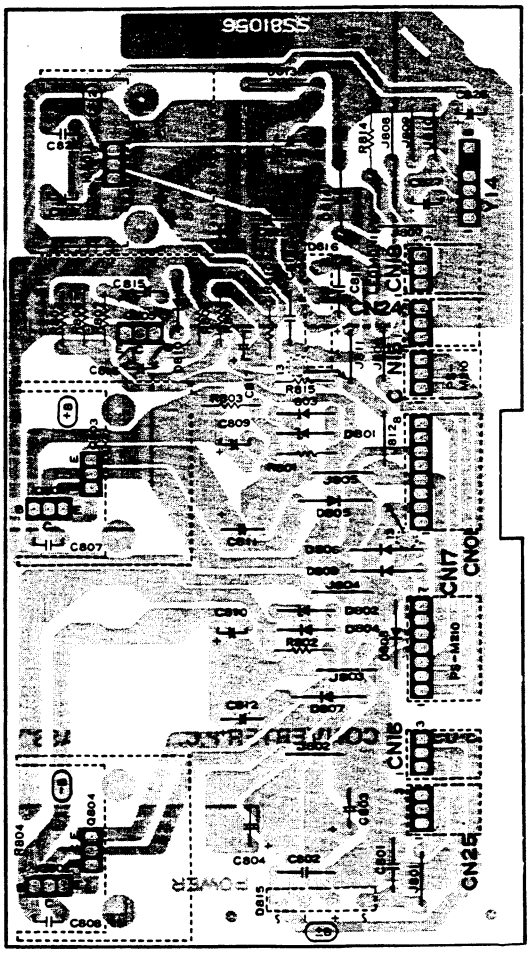
SSK0233-02A MASTER R P.C. BOARD ASS'Y
" -02B "



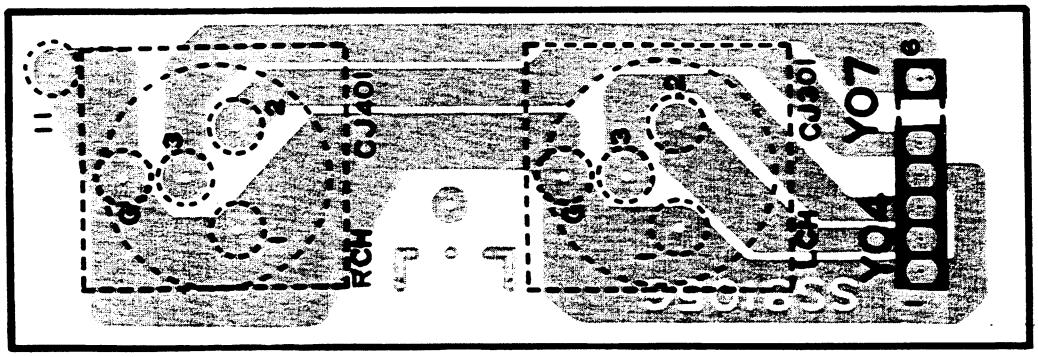
SSK0233-03 TALK BACK P.C. BOARD ASS'Y



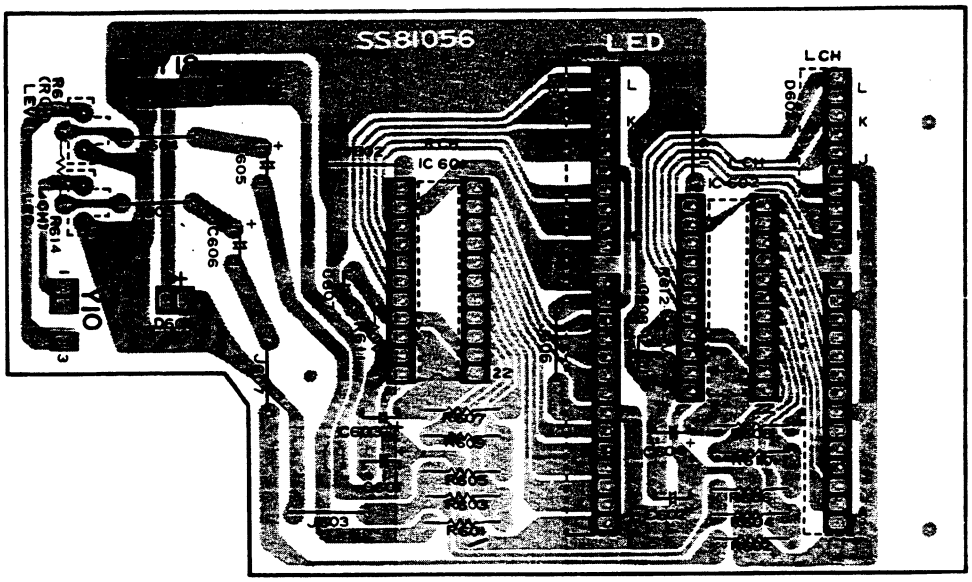
SSK0233-04A (MI-2000U/EG/EK/EA)
" -04B (MI-2100EG)
POWER SUPPLY P.C. BOARD ASS'Y



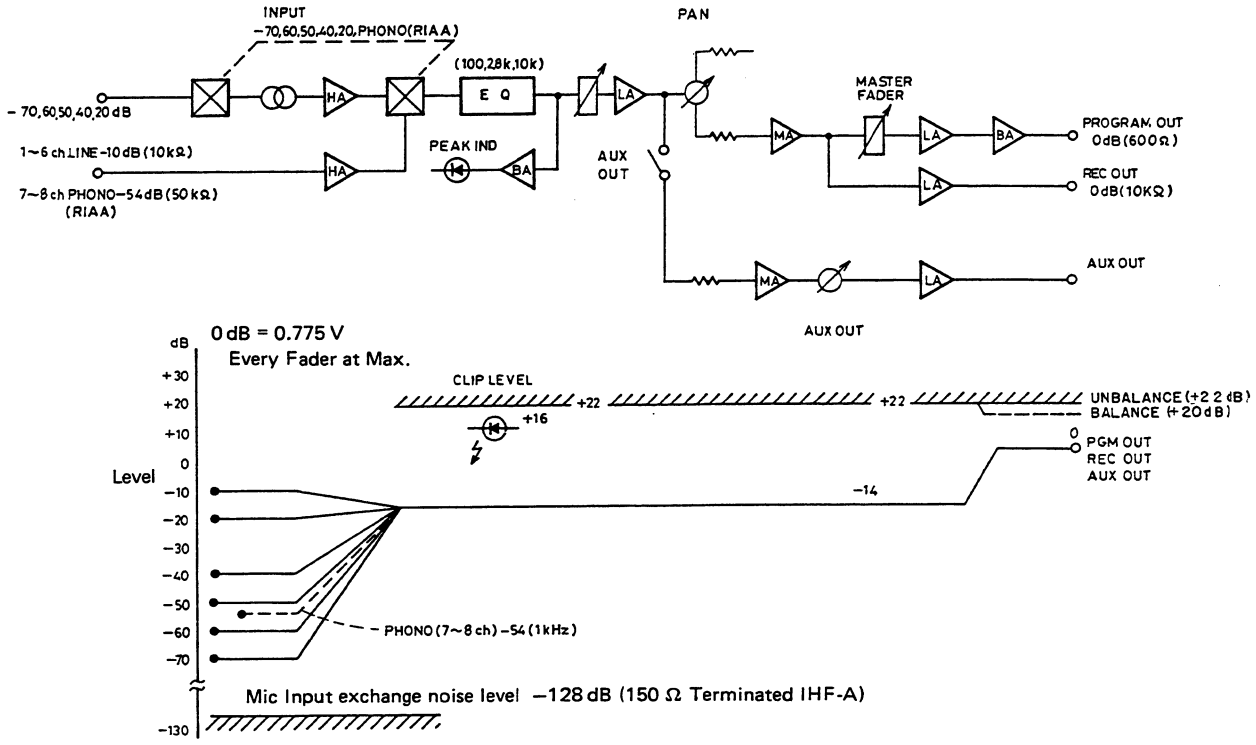
SSK0233-06 CANNON CONNECTOR P.C. BOARD ASS'Y



SSK0233-05 LED INDICATOR P.C. BOARD ASS'Y



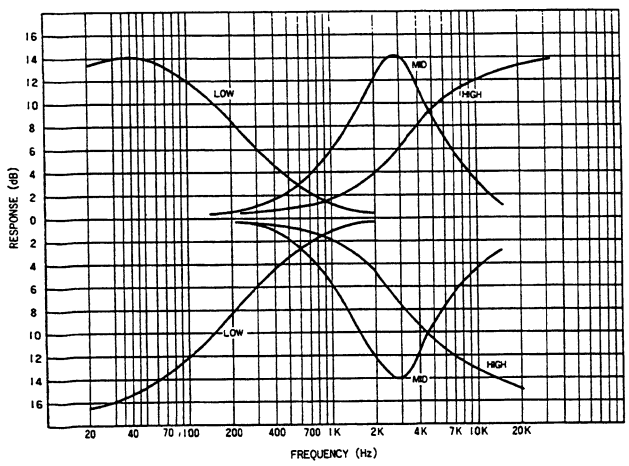
Level Diagram



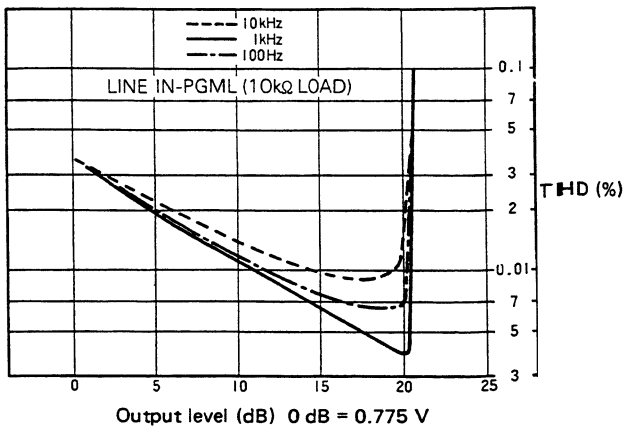
MI-2000U/EG/EK/EA Level Diagram
MI-2100EG "

Characteristics

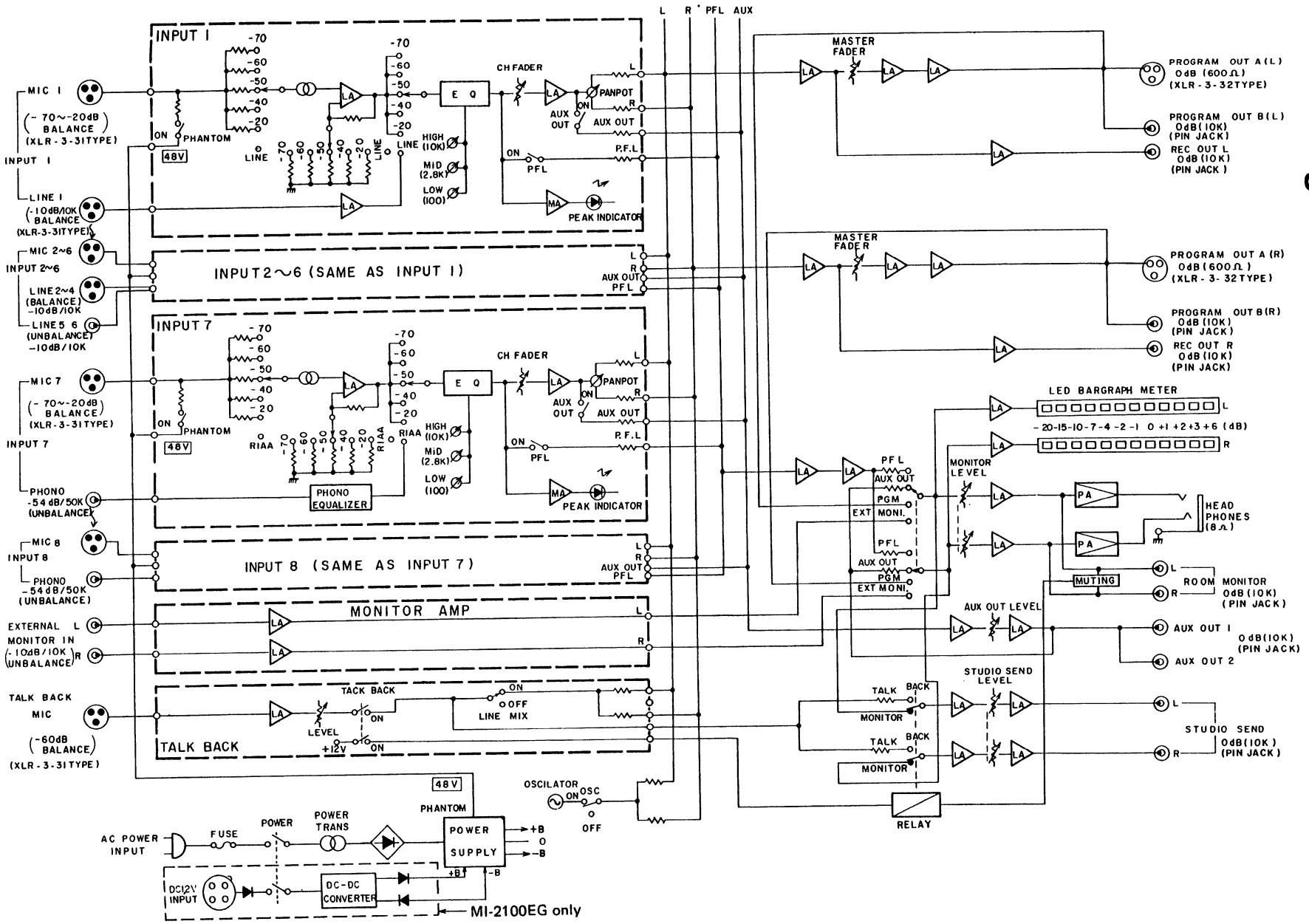
Input Equalizer Characteristics



THD Characteristics

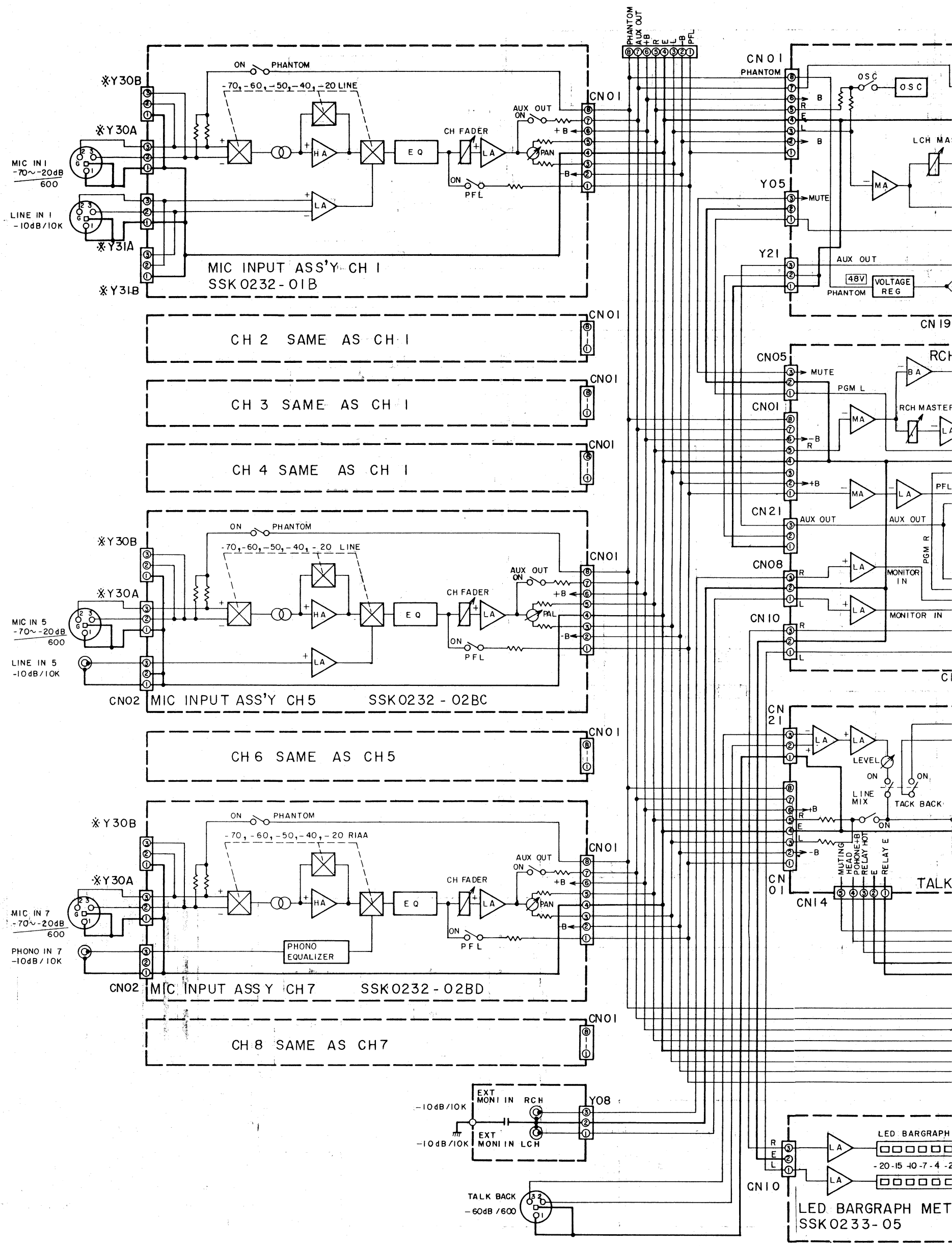


Block Diagram

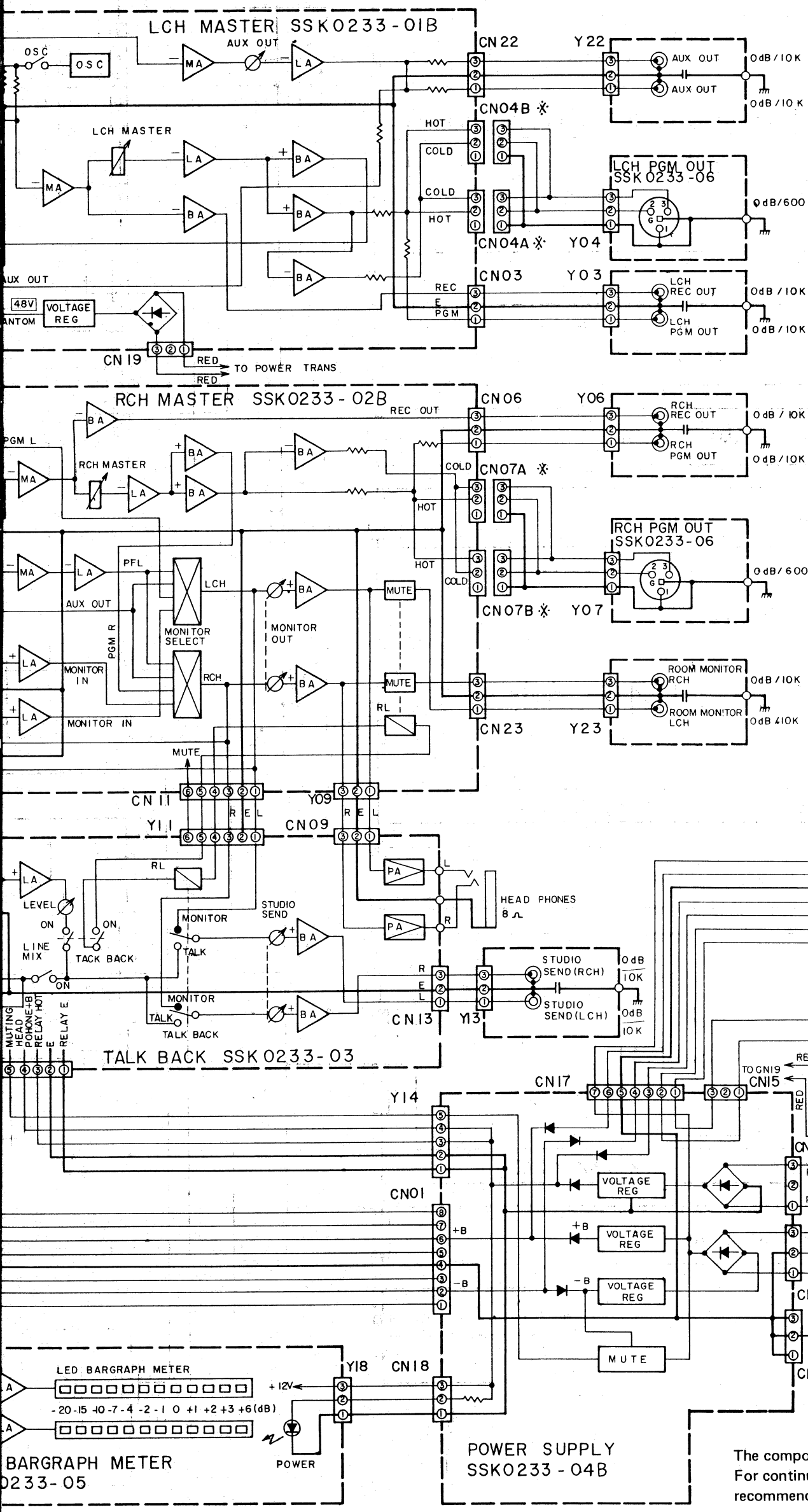


MI-2000U/EG/EK/EA Block Diagram
MI-2100EG "

Schematic Diagram



MI-2100U Schematic Diagram

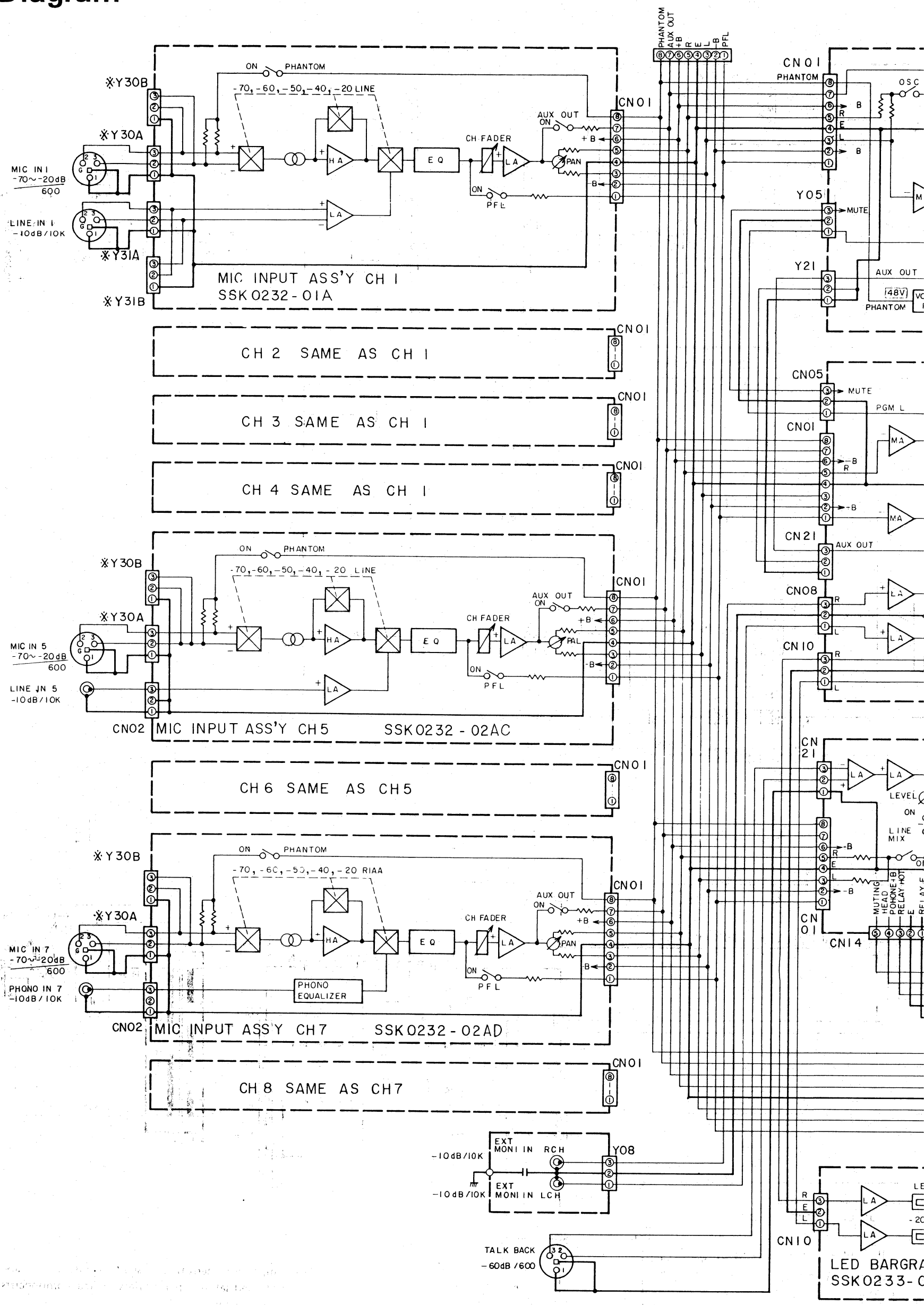


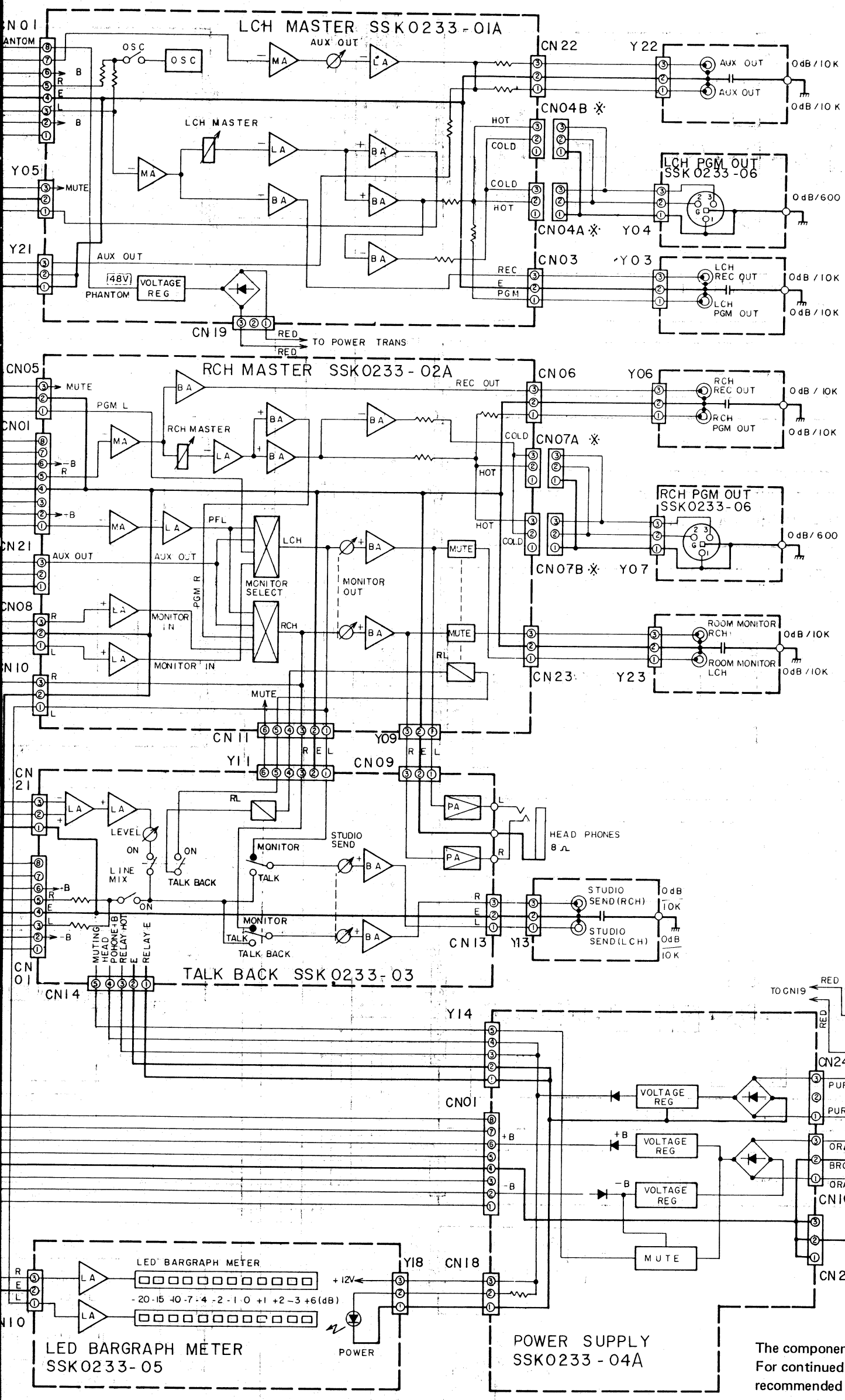
CANNON CONNECTOR POLARITY

MODEL	Y30	Y31	CN04	CN07	PORALITY
PS-M200 PS-M210	Y30A	Y31A	CN04A	CN07A	② PIN HOT ③ PIN COLD ① PIN EARTH
MI-2000U MI-2100U	Y30B	Y31B	CN04B	CN07B	③ PIN HOT ② PIN COLD ① PIN EARTH
MI-2000EG MI-2000EK MI-2000EA MI-2100EG	Y30A	Y31A	CN04A	CN07B	② PIN HOT ③ PIN COLD ① PIN EARTH

The components identified by shading and mark ⚠ are critical for safety.
For continued safety replace safety critical components only with manufacturer's recommended parts.

Schematic Diagram





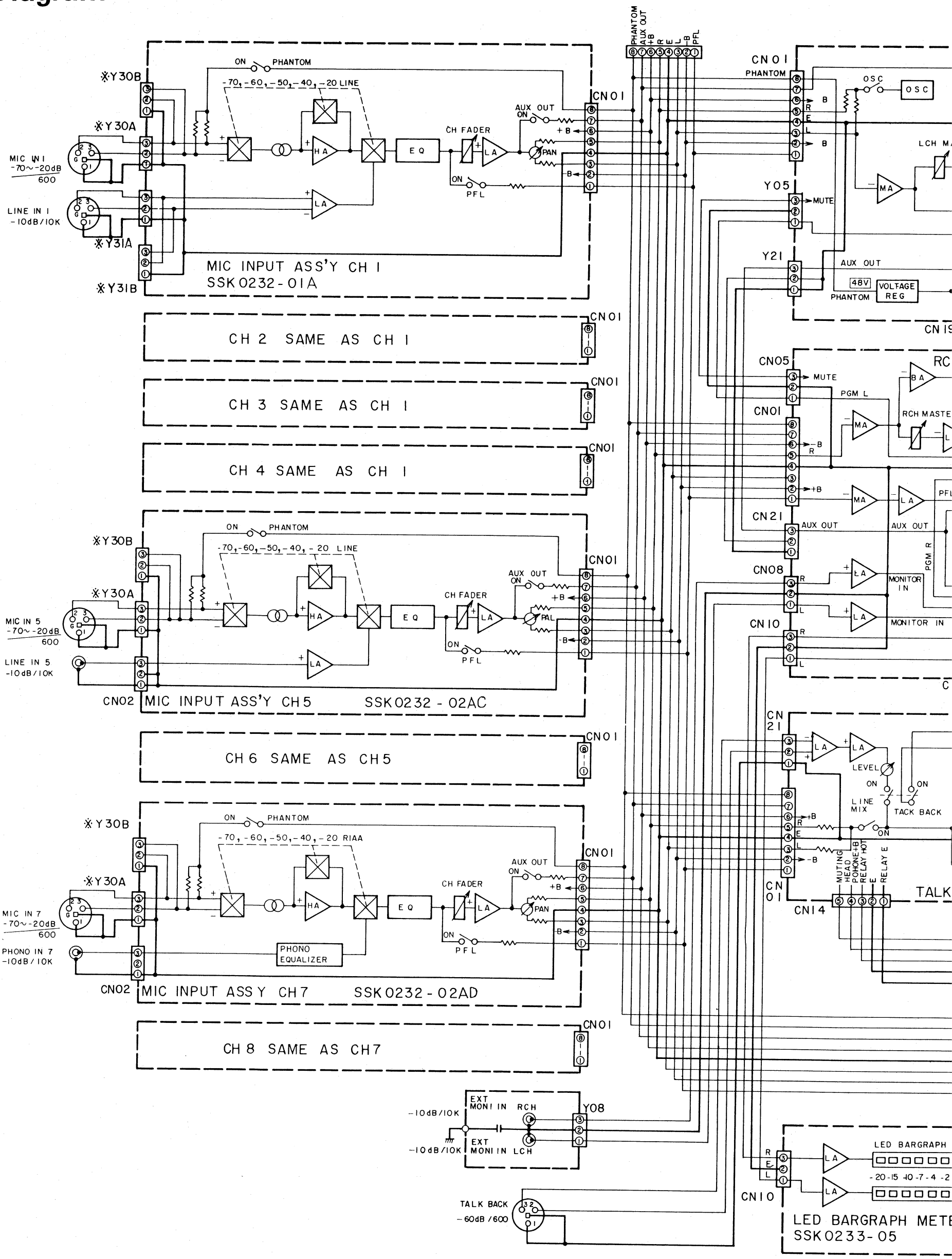
CANNON CONNECTOR POLARITY

MODEL	Y30	Y31	CN04	CN07	PORALITY
PS-M200 PS-M210	Y30A	Y31A	CN04A	CN07A	② PIN HOT ③ PIN COLD ① PIN EARTH
MI-2000U MI-2100U	Y30B	Y31B	CN04B	CN07B	③ PIN HOT ② PIN COLD ① PIN EARTH
MI-2000EG MI-2000EK MI-2000EA MI-2100EG	Y30A	Y31A	CN04A	CN07B	② PIN HOT ③ PIN COLD ① PIN EARTH

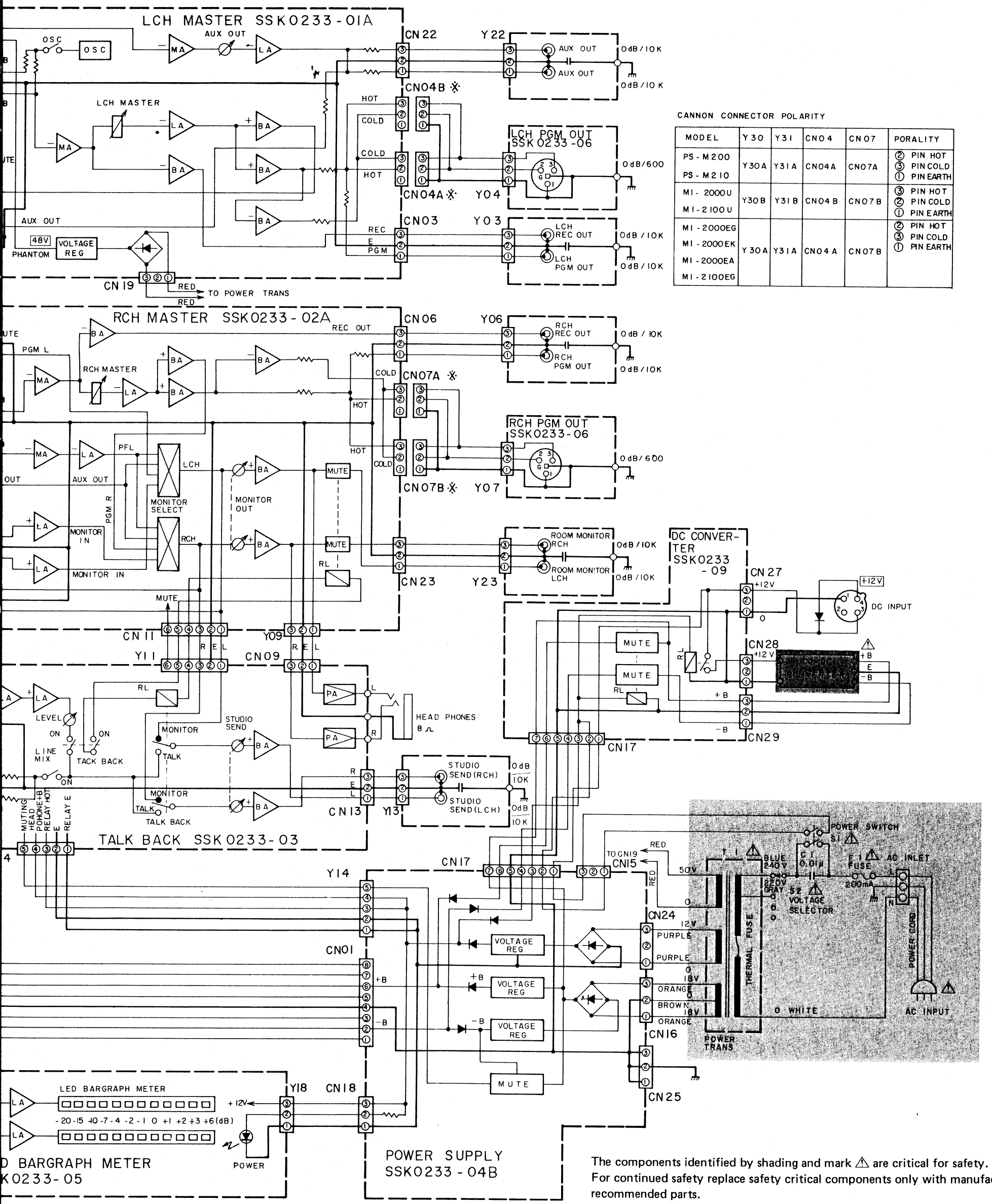
The components identified by shading and mark ※ are critical for safety.
For continued safety replace safety critical components only with manufacturer's recommended parts.

MI-2000EG/EK/EA Schematic Diagram

Schematic Diagram



MI-2100EG Schematic Diagram



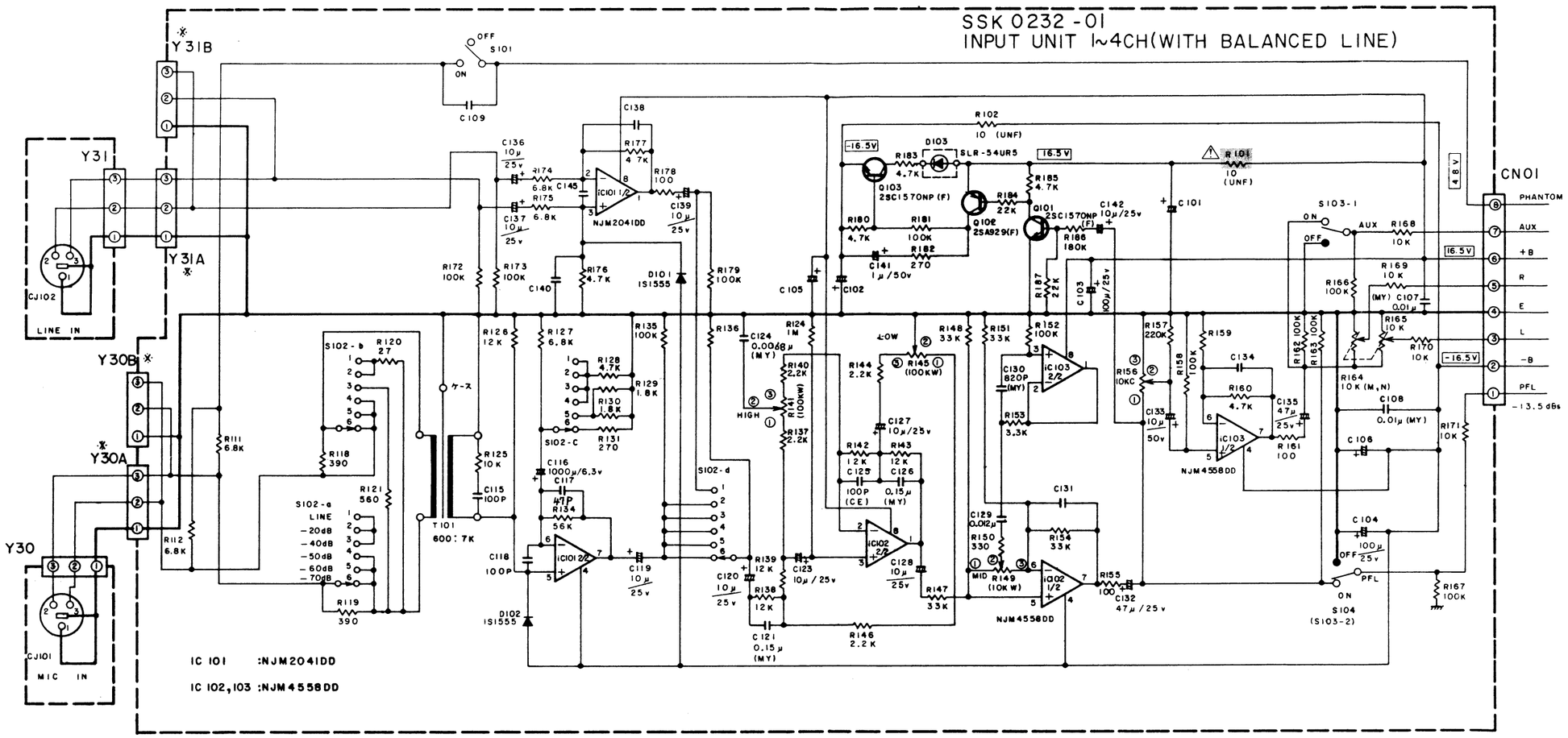
CANNON CONNECTOR POLARITY

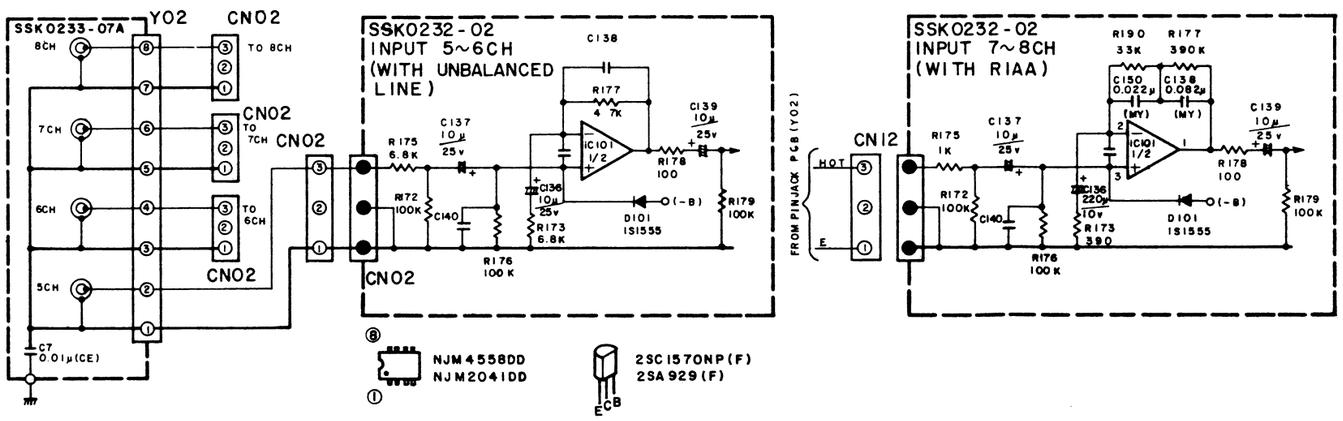
MODEL	Y30	Y31	CN04	CN07	PORALITY
PS-M200 PS-M210	Y30A	Y31A	CN04A	CN07A	② PIN HOT ③ PIN COLD ① PIN EARTH
MI-2000U MI-2100U	Y30B	Y31B	CN04B	CN07B	③ PIN HOT ② PIN COLD ① PIN EARTH
MI-2000EG MI-2000EK MI-2000EA MI-2100EG	Y30A	Y31A	CN04A	CN07B	② PIN HOT ③ PIN COLD ① PIN EARTH

The components identified by shading and mark ⚠ are critical for safety.
For continued safety replace safety critical components only with manufacturer's recommended parts.

EG Schematic Diagram

Schematic Diagram





NOTES
1. RATED WATTAGE OF RESISTORS EXCEPT THOSE OTHERWISE SPECIFIED IS 1/4W.
2. RATED VOLTAGE OF CAPACITORS EXCEPT THOSE OTHERWISE SPECIFIED IS 50V.
3. VOLTAGE VALUE ARE MEASURED BY DIGITAL VOLT METER.
4. PARTS WITHOUT THEIR VALUES ARE NOT USED.

5. CANNON CONNECTOR POLARITY

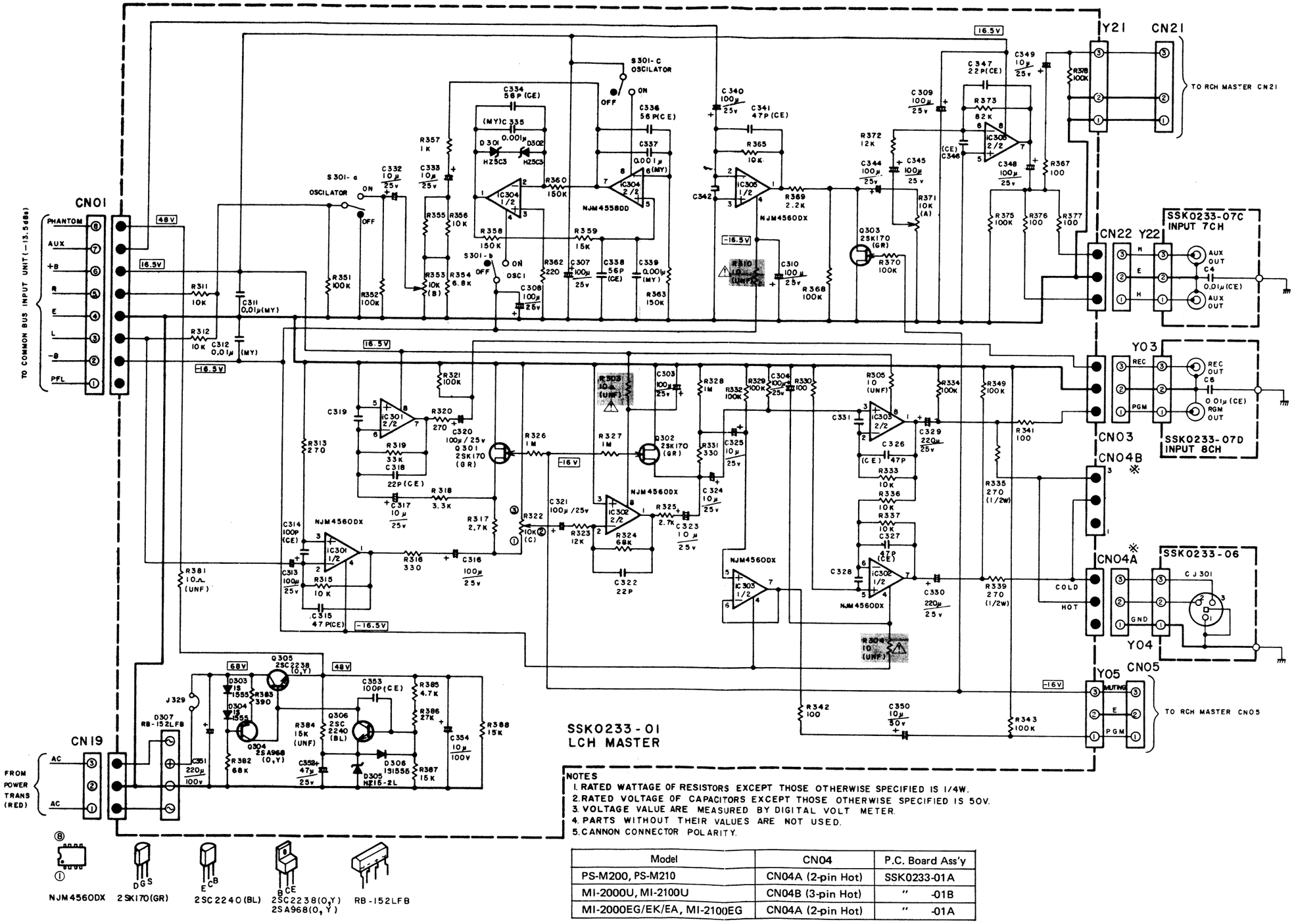
MODEL	Y30	Y31
PS-M200 , PS-M210	Y30A (2PIN HOT)	Y31A (2PIN HOT)
MI-2000U, MI-2100U	Y30B (3PIN HOT)	Y31B (3PIN HOT)
MI-2000EG /EK /EA, MI-2000EG	Y30A (2PIN HOT)	Y31A (2PIN HOT)

P.C. Board Ass'y	Model
SSK0232-01A	MI-2000EG/EK/EA, MI-2100EG
-01B	MI-2000U
-02AC	MI-2000EG/EK/EA, MI-2100EG
-02BC	MI-2000U
-02AD	MI-2000EG/EK/EA, MI-2100EG
-02BD	MI-2000U

SSK0232-01 INPUT A P.C. BOARD ASS'Y
" -02 " B "
" " C "

SCHEMATIC DIAGRAM

Schematic Diagram

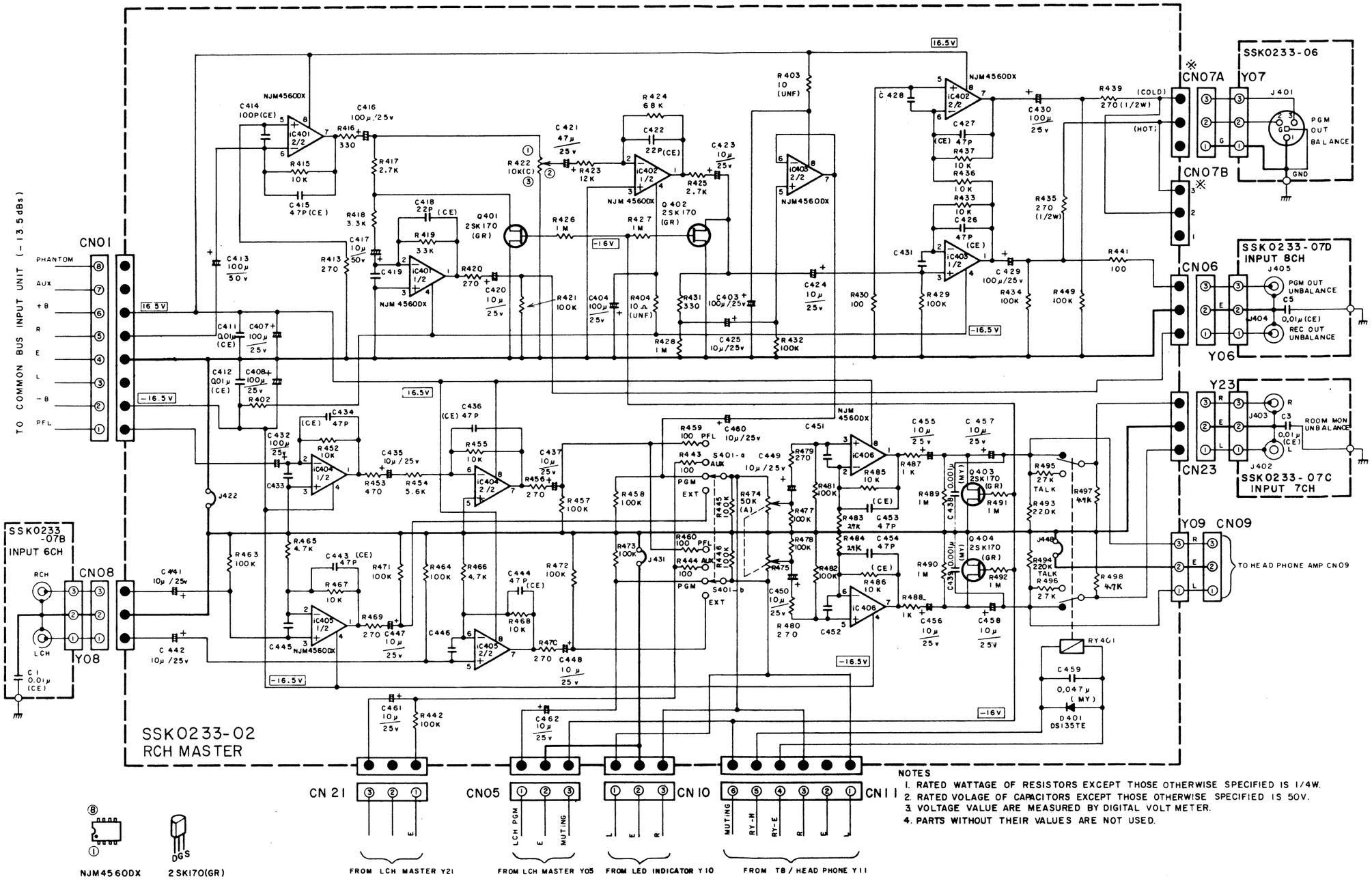


NOTES
1. RATED WATTAGE OF RESISTORS EXCEPT THOSE OTHERWISE SPECIFIED IS 1/4W.
2. RATED VOLTAGE OF CAPACITORS EXCEPT THOSE OTHERWISE SPECIFIED IS 50V.
3. VOLTAGE VALUE ARE MEASURED BY DIGITAL VOLT METER.
4. PARTS WITHOUT THEIR VALUES ARE NOT USED.
5. CANNON CONNECTOR POLARITY.

Model	CN04	P.C. Board Ass'y
PS-M200, PS-M210	CN04A (2-pin Hot)	SSK0233-01A
MI-2000U, MI-2100U	CN04B (3-pin Hot)	" -01B
MI-2000EG/EK/EA, MI-2100EG	CN04A (2-pin Hot)	" -01A

SSK0233-01 MASTER L P.C. BOARD ASS'Y SCHEMATIC DIAGRAM

Schematic Diagram



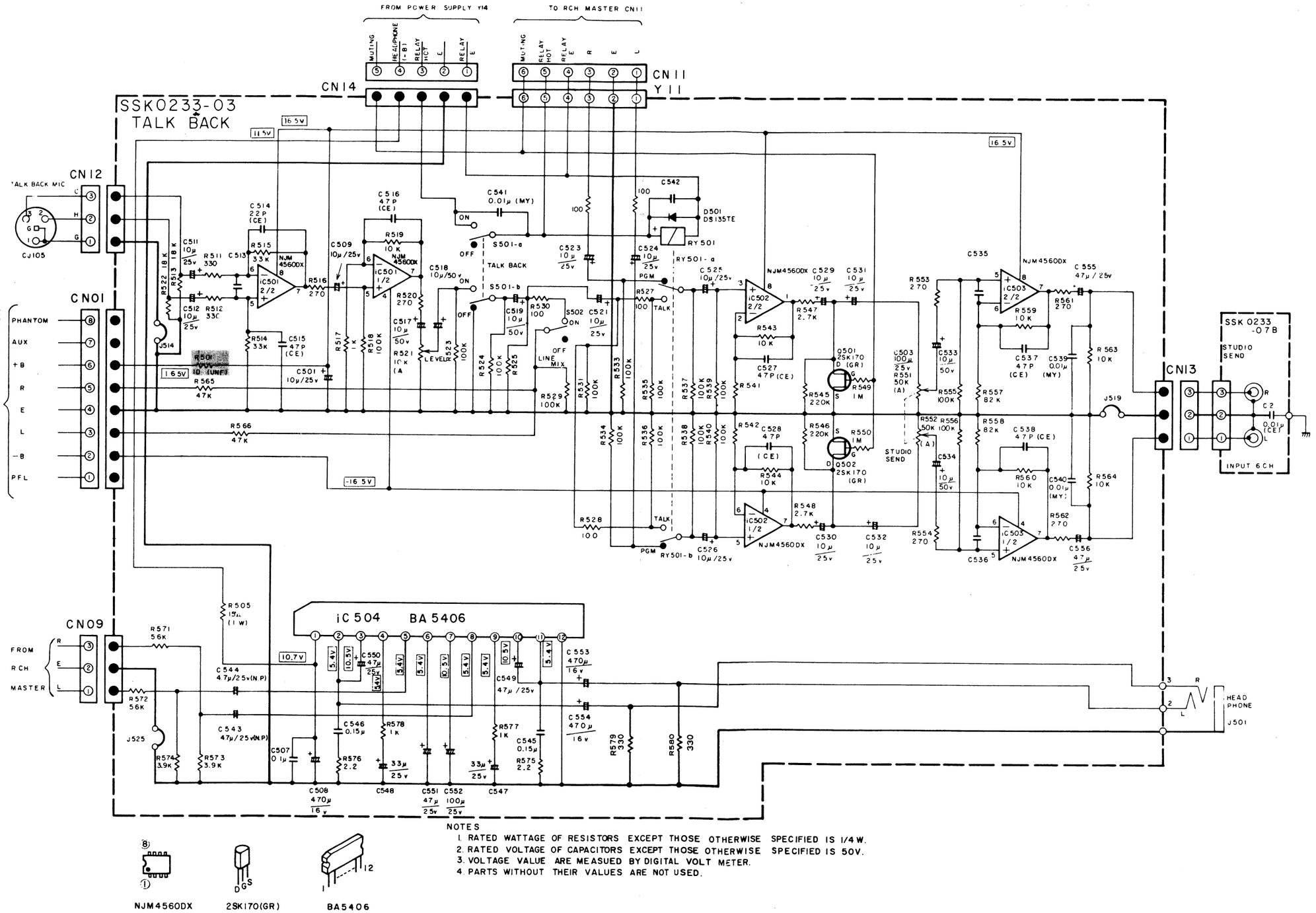
NOTES
1. RATED WATTAGE OF RESISTORS EXCEPT THOSE OTHERWISE SPECIFIED IS 1/4W.
2. RATED VOLAGE OF CAPACITORS EXCEPT THOSE OTHERWISE SPECIFIED IS 50V.
3. VOLTAGE VALUE ARE MEASURED BY DIGITAL VOLT METER.
4. PARTS WITHOUT THEIR VALUES ARE NOT USED.

NOTES 5. CANNON CONNECTOR POLARITY

Model	CN07	P.C. Board Ass'y
PS-M200, PS-M210	CN07A (2-pin Hot)	SSK0233-02A
MI-2000U, MI-2100U	CN07B (3-pin Hot)	" -02B
MI-2000EG/EK/EA, MI-2100EG	CN07A (2-pin Hot)	" -02A

SSK0233-02 MASTER R P.C. BOARD ASS'Y SCHEMATIC DIAGRAM

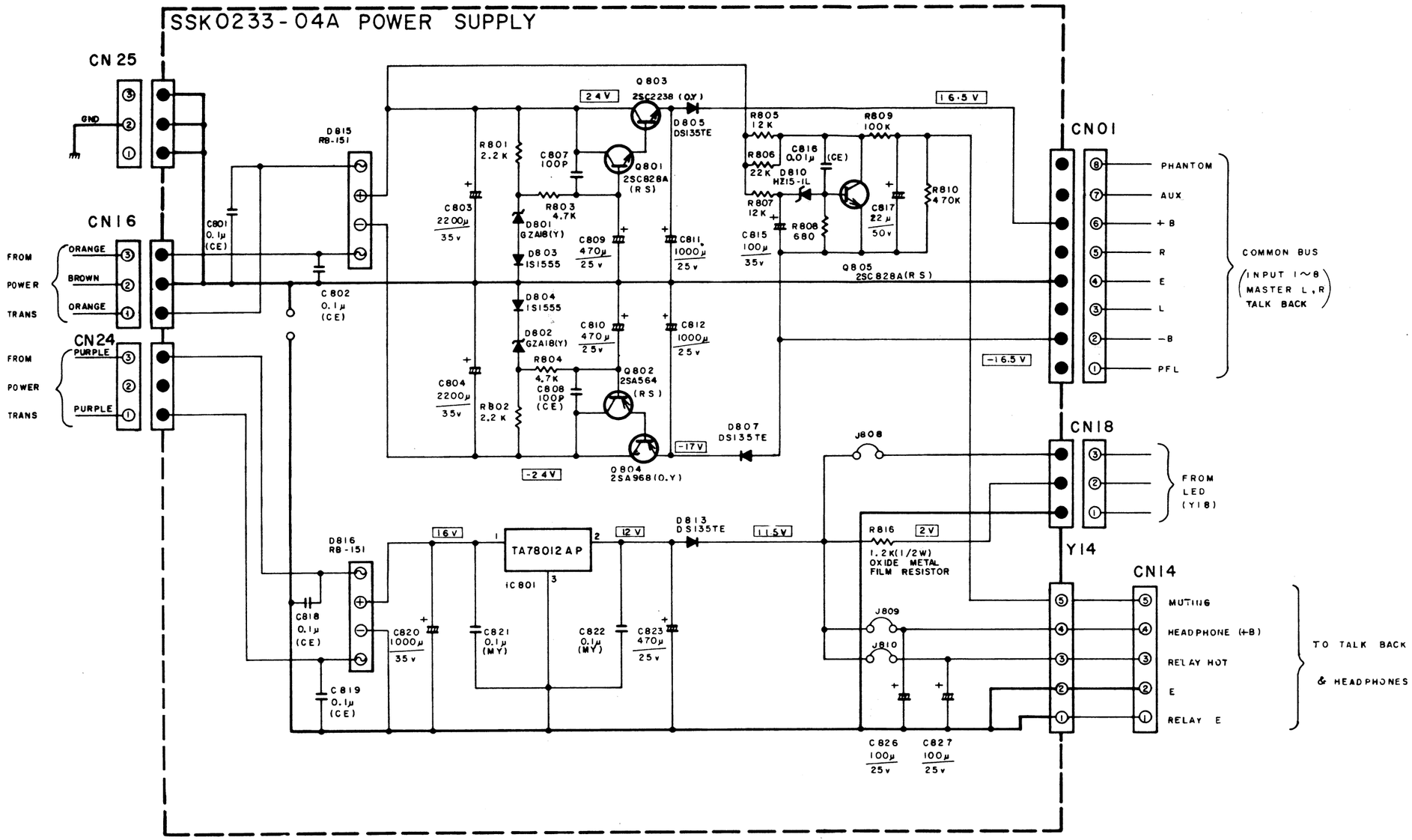
Schematic Diagram



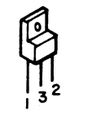
NOTES
1. RATED WATTAGE OF RESISTORS EXCEPT THOSE OTHERWISE SPECIFIED IS 1/4W.
2. RATED VOLTAGE OF CAPACITORS EXCEPT THOSE OTHERWISE SPECIFIED IS 50V.
3. VOLTAGE VALUE ARE MEASUED BY DIGITAL VOLT METER.
4. PARTS WITHOUT THEIR VALUES ARE NOT USED.

SSK0233-03 TALK BACK P.C. BOARD ASS'Y SCHEMATIC DIAGRAM

Schematic Diagram



2SC2238 (O,Y)
2SA968 (O,Y)



TA78012AP

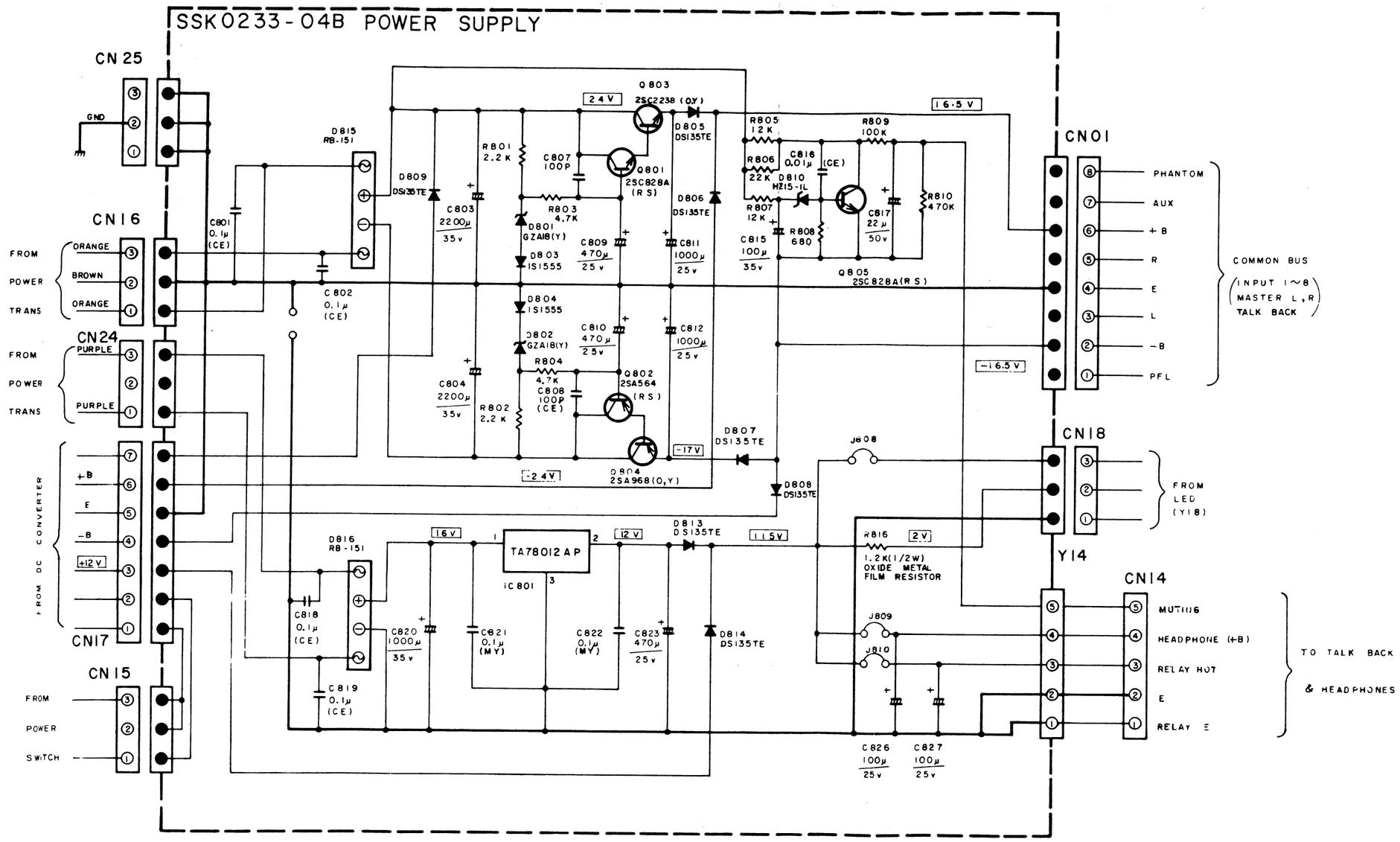
2SC828A (R,S)
2SA564 (R,S)

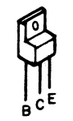
RB-151

NOTES
1 RATED WATTAGE OF RESISTORS EXCEPT THOSE OTHERWISE SPECIFIED IS 1/4W.
2 RATED VOLTAGE OF CAPACITORS EXCEPT THOSE OTHERWISE SPECIFIED IS 50 V.
3 VOLTAGE VALUE ARE MEASURED BY DIGITAL VOLT METER.
4 PARTS WITHOUT THEIR VALUES ARE NOT USED.

SSK0233-04A POWER SUPPLY P.C. BOARD ASS'Y SCHEMATIC DIAGRAM (MI-2000U/EG/EK/EA)

Schematic Diagram





2SC2238 (O,Y)
2SA968 (O,Y)

TA78012AP

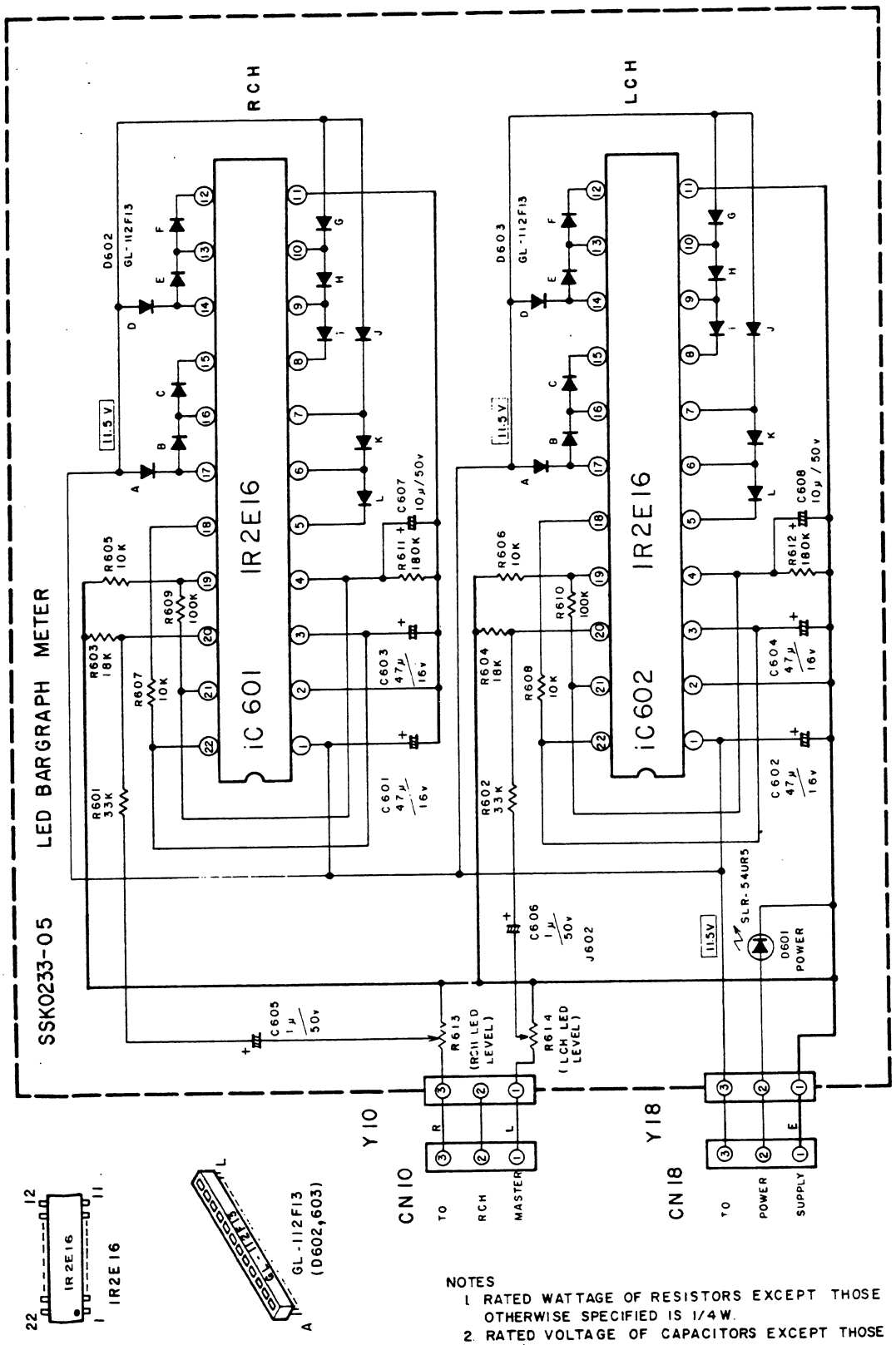
2SC828A (R, S)
2SA564 (R, S)

RB-151

NOTES
1 RATED WATTAGE OF RESISTORS EXCEPT THOSE OTHER WISE SPECIFIED IS 1/4W.
2 RATED VOLTAGE OF CAPACITORS EXCEPT THOSE OTHERWISE SPECIFIED IS 50 V.
3 VOLTAGE VALUE ARE MEASURED BY DIGITAL VOLT METER.
4 PARTS WITHOUT THEIR VALUES ARE NOT USED.

SSK0233-04B POWER SUPPLY P.C. BOARD ASS'Y SCHEMATIC DIAGRAM (MI-2100EG)

Schematic Diagram

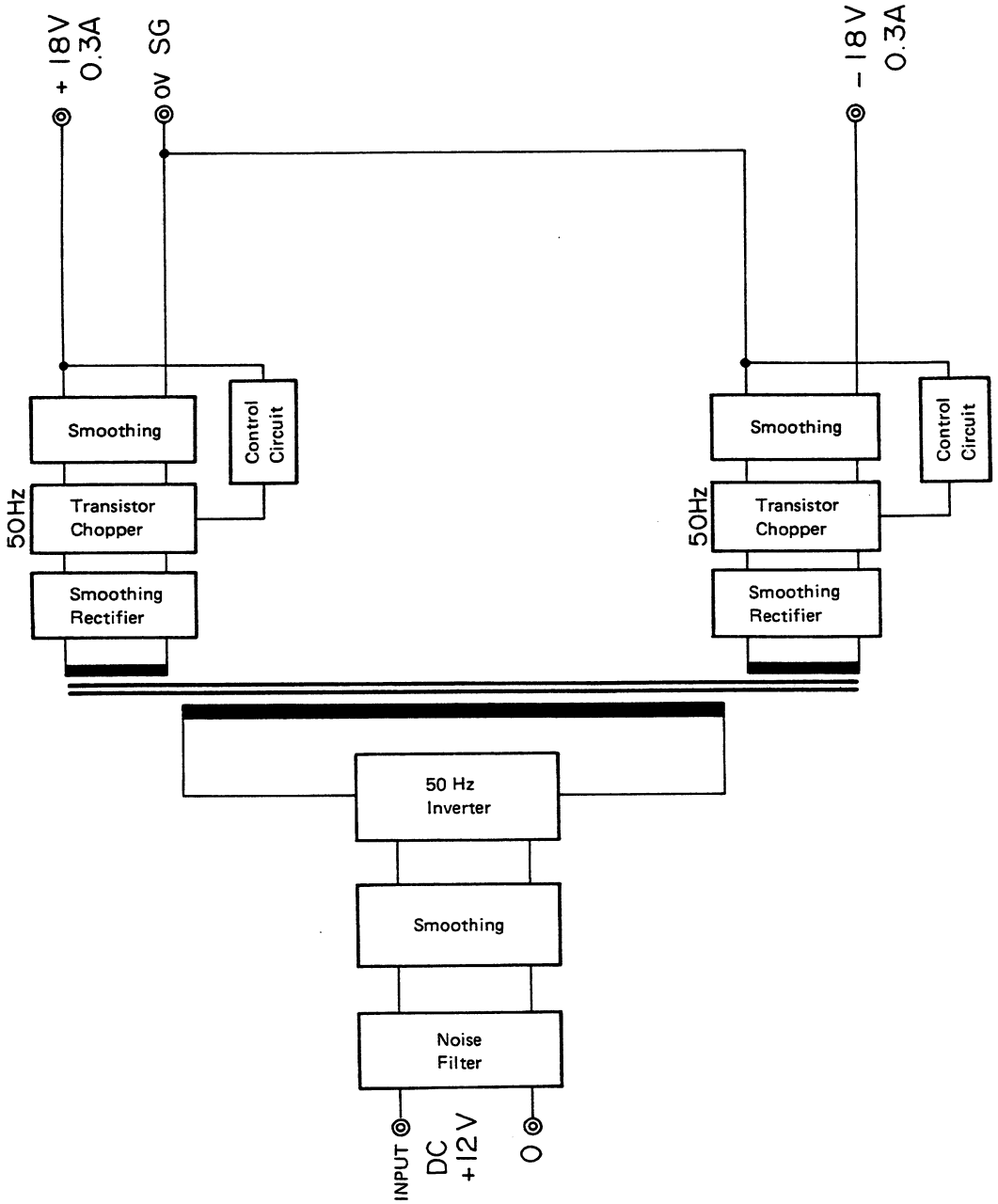


SYMBOL	A	B	C	D	E	F	G	H	I	J	K	L
LEVEL (dB)	-20	-15	-10	-7	-4	-2	-1	0	+1	+2	+3	+6

SSK0233-05 LED INDICATOR P.C. BOARD ASS'Y SCHEMATIC DIAGRAM

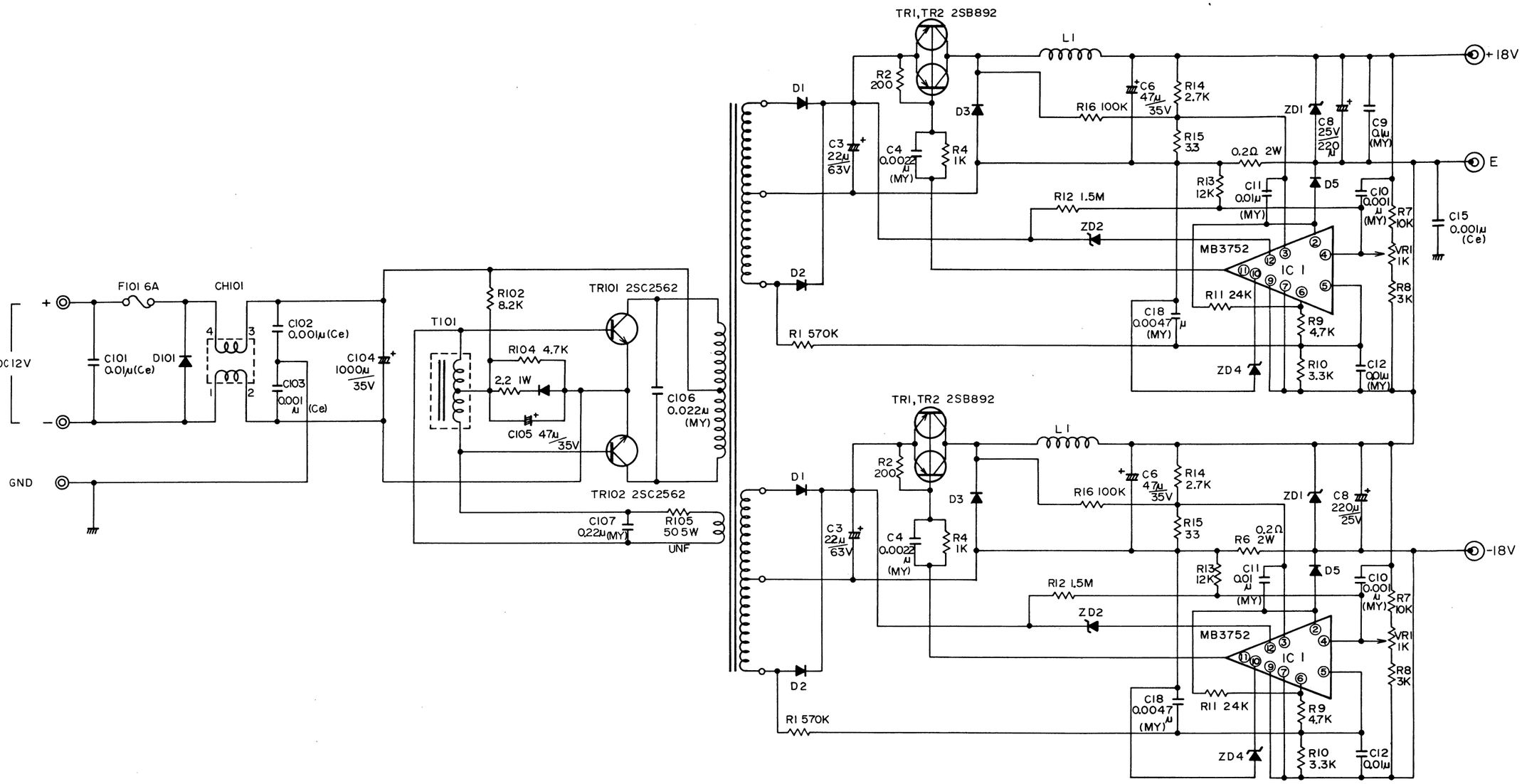
NOTES
1. RATED WATTAGE OF RESISTORS EXCEPT THOSE OTHERWISE SPECIFIED IS 1/4W.
2. RATED VOLTAGE OF CAPACITORS EXCEPT THOSE OTHERWISE SPECIFIED IS 50V.
3. VOLTAGE VALUE ARE MEASURED BY DIGITAL VOLT METER.
4. PARTS WITHOUT THEIR VALUES ARE NOT USED.

Block Diagram



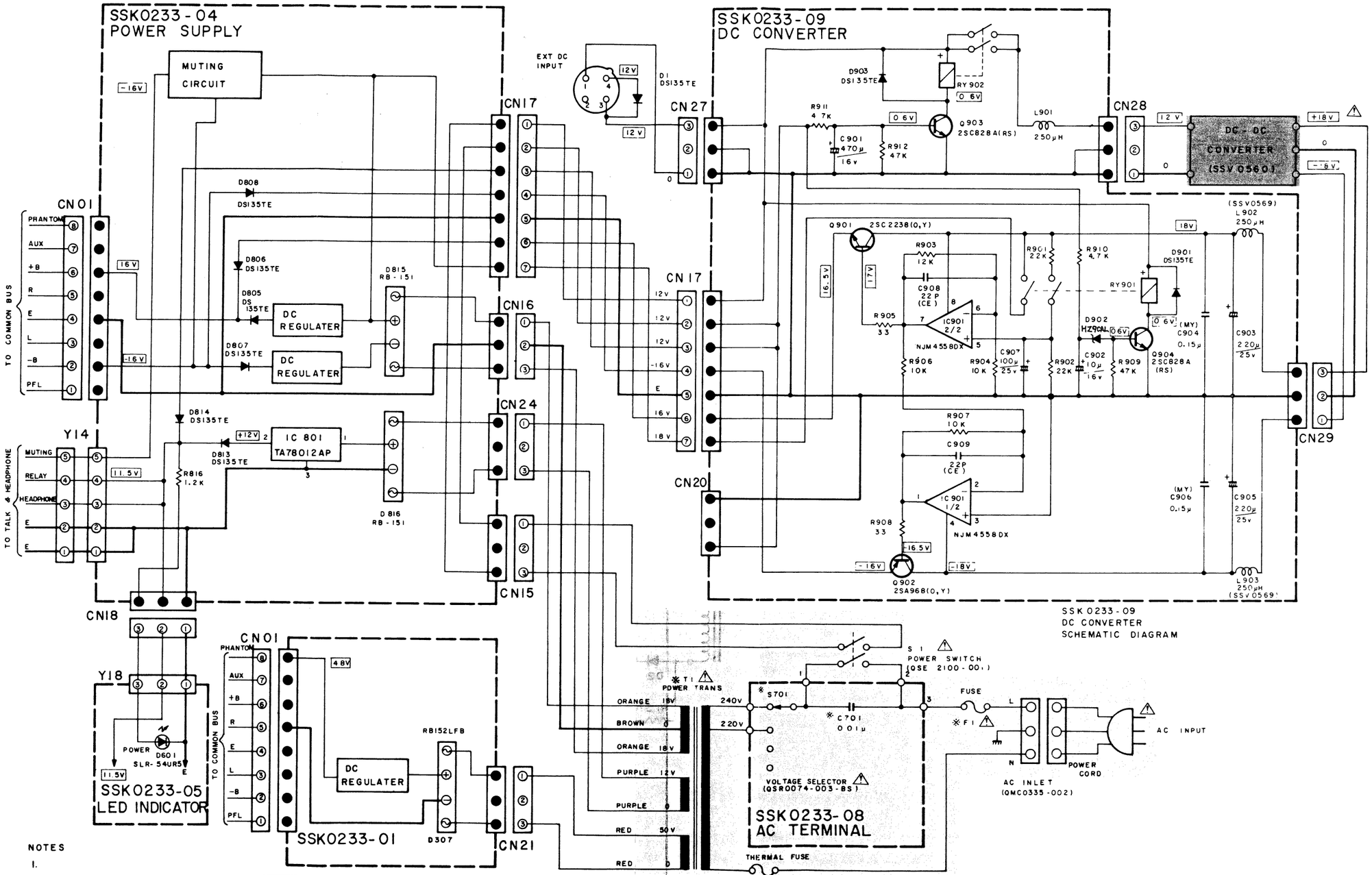
SSV0560 DC-DC CONVERTER BLOCK DIAGRAM (MI-2100EG)

Schematic Diagram



SSV0560 DC-DC CONVERTER SCHEMATIC DIAGRAM (MI-2100EG)

Schematic Diagram



NOTES

1.

MODEL	S701 VOLTAGE SELECTOR	F1 FUSE	C701	POWRE CORD	T1 POWER TRANS
PS-M210	×	0.5A	QFH72BM-103	SCV0416-2M5	AC 100V ONLY
MI-2100EG	○	0.2A	QCZ9016-103	SCV0418-2M5	AC 240V/220V

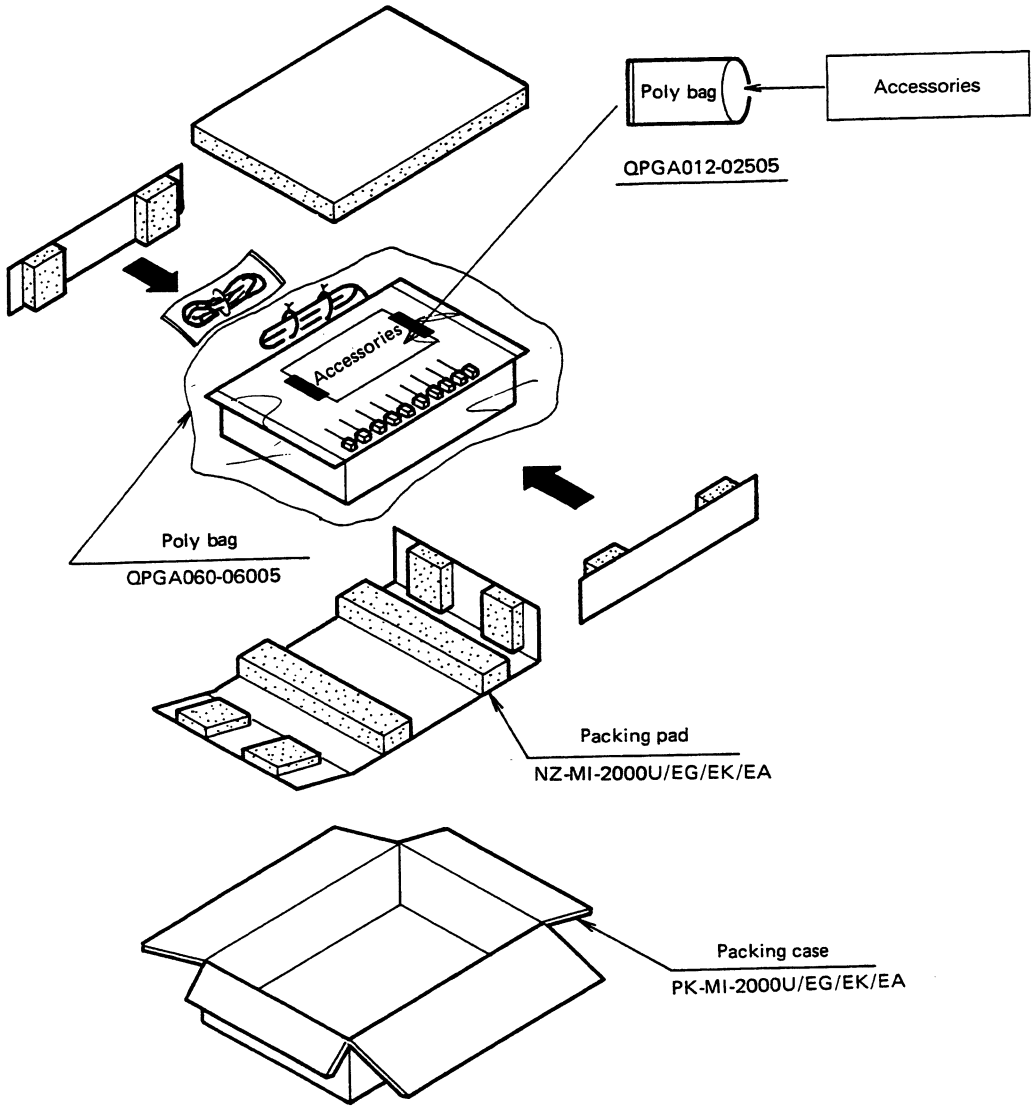
2. RATED WATTAGE OF RESISTORS EXCEPT THOSE OTHERWISE SPECIFIED IS 1/4W.
3. RATED VOLTAGE OF CAPACITORS EXCEPT THOSE OTHERWISE SPECIFIED IS 50V.
4. VOLTAGE VALUE ARE MEASURED BY DIGITAL VOLT METER.
5. PARTS WITHOUT THEIR VALUES ARE NOT USED.

The components identified by shading and mark ⚠ are critical for safety.
For continued safety replace safety critical components only with manufacturer's recommended parts.

POWER SUPPLY P.C. BOARD ASS'Y SCHEMATIC DIAGRAM (MI-2100EG)

Packing

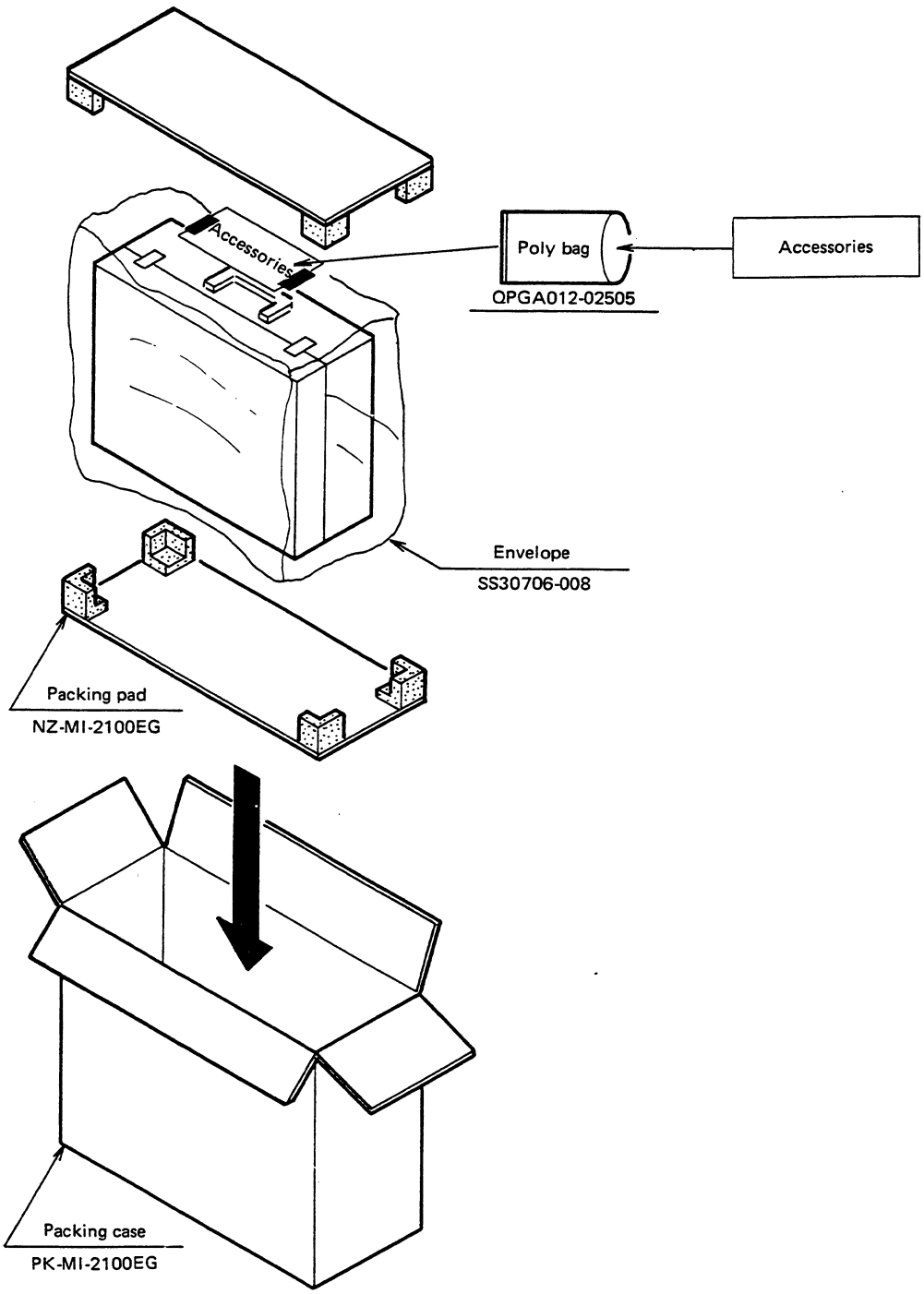
- **MI-2000U/EG/EK/EA**



PARTS LIST

Parts No.	Parts Name	Description	Q'ty
PK-MI-2000	Packing Case	SS21229-1	1
NZ-MI-2000	Packing Pad	" -2, 3, 4	1
QPGA012-02505	Poly Bag	for Accessories	1
QPGA060-06005	"	for Body	1
QPGB005-00704	"		1

- **MI-2100EG**



PARTS LIST

Parts No.	Parts Name	Description	Q'ty
PK-MI-2100EG	Packing Case	SS21237-1	1
NZ-MI-2100EG	Packing Pad	" -2	1
SS30706-008	Envelope	for Body	1
QPGA012-02505	Poly Bag	for Accessories	1

Accessories

- **MI-2000EG/EK/EA**

Parts No.	Parts Name	Description	Q'ty
SS96262	Instruction		1
SCV0418-2M5	Power Cable	MI-2000EG	1
SCV0419-2M5	"	MI-2000EK	1
SCV0420-2M5	"	MI-2000EA	1

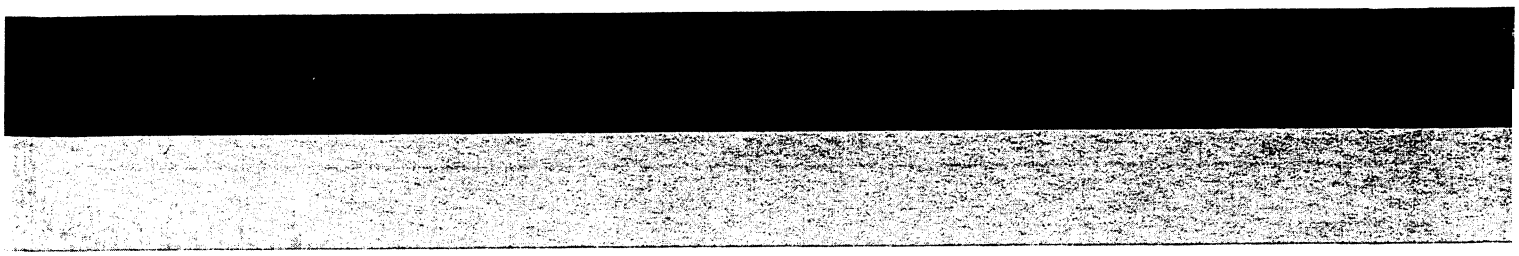
- **MI-2000U**

Parts No.	Parts Name	Description	Q'ty
SS96261	Instruction		1
SCV0417-2M5	Power Cable		1

- **MI-2100EG**

Parts No.	Parts Name	Description	Q'ty
SS96262	Instruction		1
SSA1315	Price Card		1
SCV0418-2M5	Power Cable		1

MI-2000U/EG/EK/EA
MI-2100EG



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